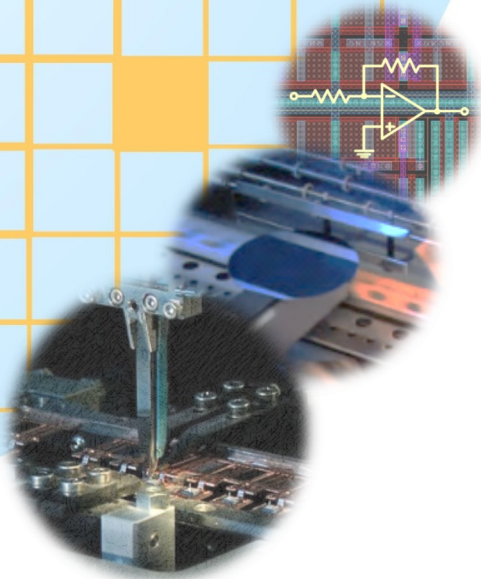
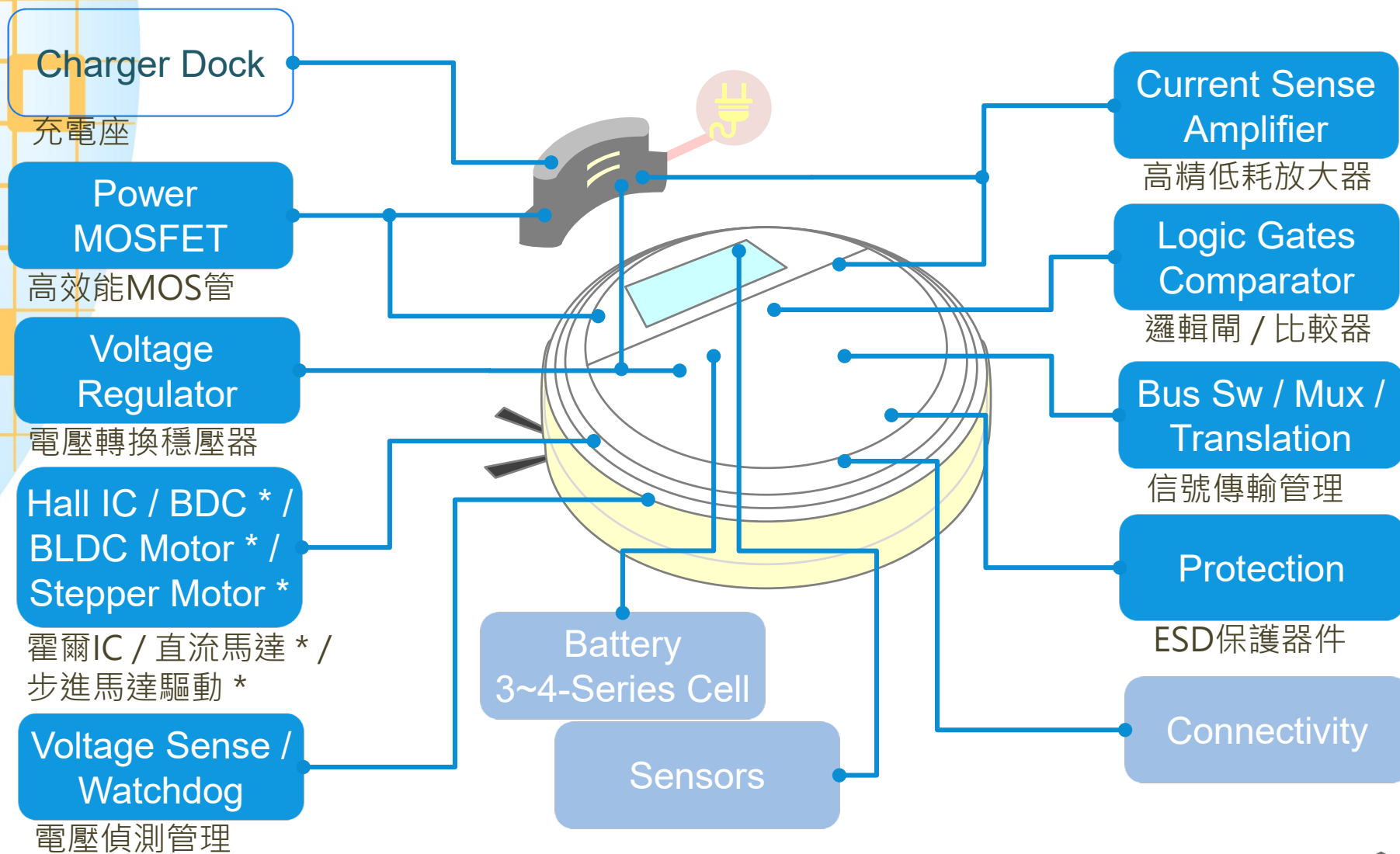


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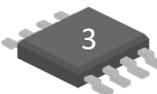
Unisonic Technologies

Product Introduction





Category	Part No.	Description	Package
DC converter	UD05208	5V 2A 1.5MHz with power saving	SOT-25
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26
DC converter	UC3666	5V 1A 1.6MHz 2-ch in DFN3030	DFN3030-10
Low- I_Q LDO	UR56xx	18V 0.5A LDO, $I_Q < 3\mu A$	SOT-25 SOT-89 TO-92
Low- I_Q LDO	UR76xx	36V 0.5A LDO, $I_Q < 3\mu A$	SOT-23 SOT-25 SOT-89 TO-92
Low noise CMOS LDO	LR9102	$\pm 1\%$ PSRR 75dB DFN package	SOT-23 SOT-25 SOT-353 DFN1616-6 DFN1820-6
High speed CMOS LDO	UR6223	$\pm 1\%$ 80dB DFN Inrush protect.	SOT-25 DFN1010-4
Ultralow- V_D CMOS LDO	LR18120	2A ultralow- V_D , auto-discharge, soft-start, PoR, FIX/ADJ selectable	SOP-8 HSOP-8
Dual-channel	LR6401	2-ch 0.3A LDO in DFN1820	SOT-26 DFN1616-6
Wide-range	UAS16V	80V regulator transistor	SOT-23 TO-92

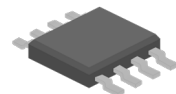
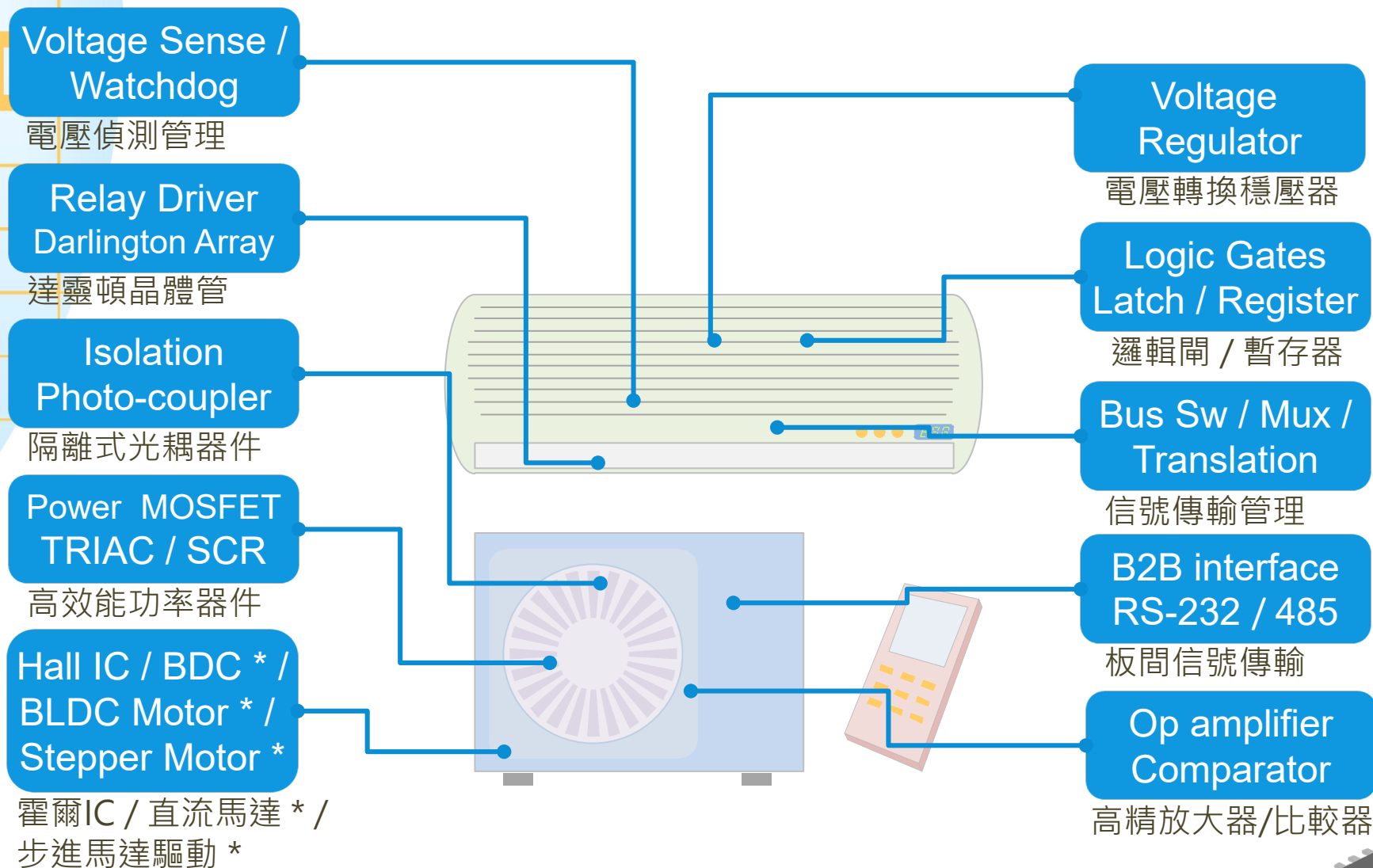


Category	Part No.	Description	Package
DDR termination	UR6517	1.8A DDR3/LPDDR3/DDR4 bus termination regulator	HSOP-78
Shunt voltage reference	ULVH431	431 reference $I_{K(min)} < 100\mu A$	SOT-23 SOT-25
Reset IC watchdog	UWD817	Reset & watchdog timer	SOT-25
Reset IC watchdog	UWD708	MCU supervisory circuit	SOP-8
Power MOSFET	UT3404	N-ch MOS 30V 5.8A	SOT-23 SOT-26 SOP-8
Power MOSFET	UT70P03	P-ch MOS -30V 70A	DFN5060-8 TO-252 TO-251 TO-220 TO-220F
Power MOSFET	UT8205A	2-ch NMOS 20V 6A	SOT-26 TSSOP-8 SOP-8
Power MOSFET	USG120N10	SGT 100V $< 4.5m\Omega$ for SR	TO-220 TO-263

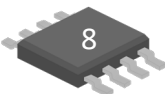
Category	Part No.	Description	Package
Logic gate	U74AUC1G08	1-ch 2-input AND gate	SOT-25 SOT-353
Logic gate	U74LVC2G32	2-ch 2-input OR gate	MSOP-8
Logic gate	U74HC02	4-ch 2-input NOR gate	SOP-14 TSSOP-14 DIP-14
Bus buffer	U74HC4049	6-ch bus Inverting buffer	SOP-16 TSSOP-16
Multiplexer	U74LVC1G3157	Analog SPDT switch	SOT-26 SOT-353
Multiplexer	U74LVX4051	8-ch analog multiplexer	SOP-16 TSSOP-16
Volt. Translator	UMX2215	1-to-4 analog mux 200MHz	SOP-16
Volt. Translator	U74AVC4T245	4-ch voltage translator	SOP-16 TSSOP-16
Volt. Translator	UCA9617	2-bit FM+ I ² C switch 1MHz	SOP-8 MSOP-8
Volt. Translator	UTXS0104	4-bit auto-bidirectional sw.	TSSOP-14
Volt. Translator	UTXB0104	4-bit auto-bidir. sw 100Mbps	TSSOP-14

Category	Part No.	Description	Package
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
Op amplifier	ULV724	4-ch R2R amp 11MHz 8.5V/ μ s	SOP-14 TSSOP-14
Volt. comparator	ULC393	18V low-consumption comparator	SOP-8
Hall sensor latch	UH8102	Low-power proximity sensing	SOT-23 SIP-3
Hall sensor latch	SK1816	20V motor / rotation sensing	SOT-23 SIP-3
Signal switching MOSFET	2N7002K	60V N-ch ESD-proof MOSFET	SOT-23
Resistor-biased digital transistor	DTC143E	Digital transistor (2-ch available)	SOT-23 SOT-323 SOT-723 TO-92
ESD protection TVS array	SOT05C	Dual TVS for ESD protection	SOT-23

UTC Parts in Air Conditioner



Category	Part No.	Description	Package
Logic gate	U74AUC1G08	1-ch 2-input AND gate	SOT-25 SOT-353
Logic gate	U74LVC2G32	2-ch 2-input OR gate	MSOP-8
Logic gate	U74AHC373	8-ch D-type latch	TSSOP-20 SSOP-20
Bus driver	U74LVC16244	16-ch buffer/driver	TSSOP-48
Multiplexer	U74LVC1G3157	Analog SPDT switch	SOT-26 SOT-353
Multiplexer	U74LVX4051	8-ch analog multiplexer	SOP-16 TSSOP-16
Volt. Translator	UMX2215	1-to-4 analog mux 200MHz	SOP-16
Volt. Translator	U74AVC4T245	4-ch voltage translator	SOP-16 TSSOP-16
Volt. Translator	UTXB0104	4-bit auto-bidir. sw 100Mbps	TSSOP-14
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
Op amplifier	ULV724	4-ch R2R amp 11MHz 8.5V/ μ s	SOP-14 TSSOP-14
Volt. comparator	ULC393	18V low-consumption comparator	SOP-8



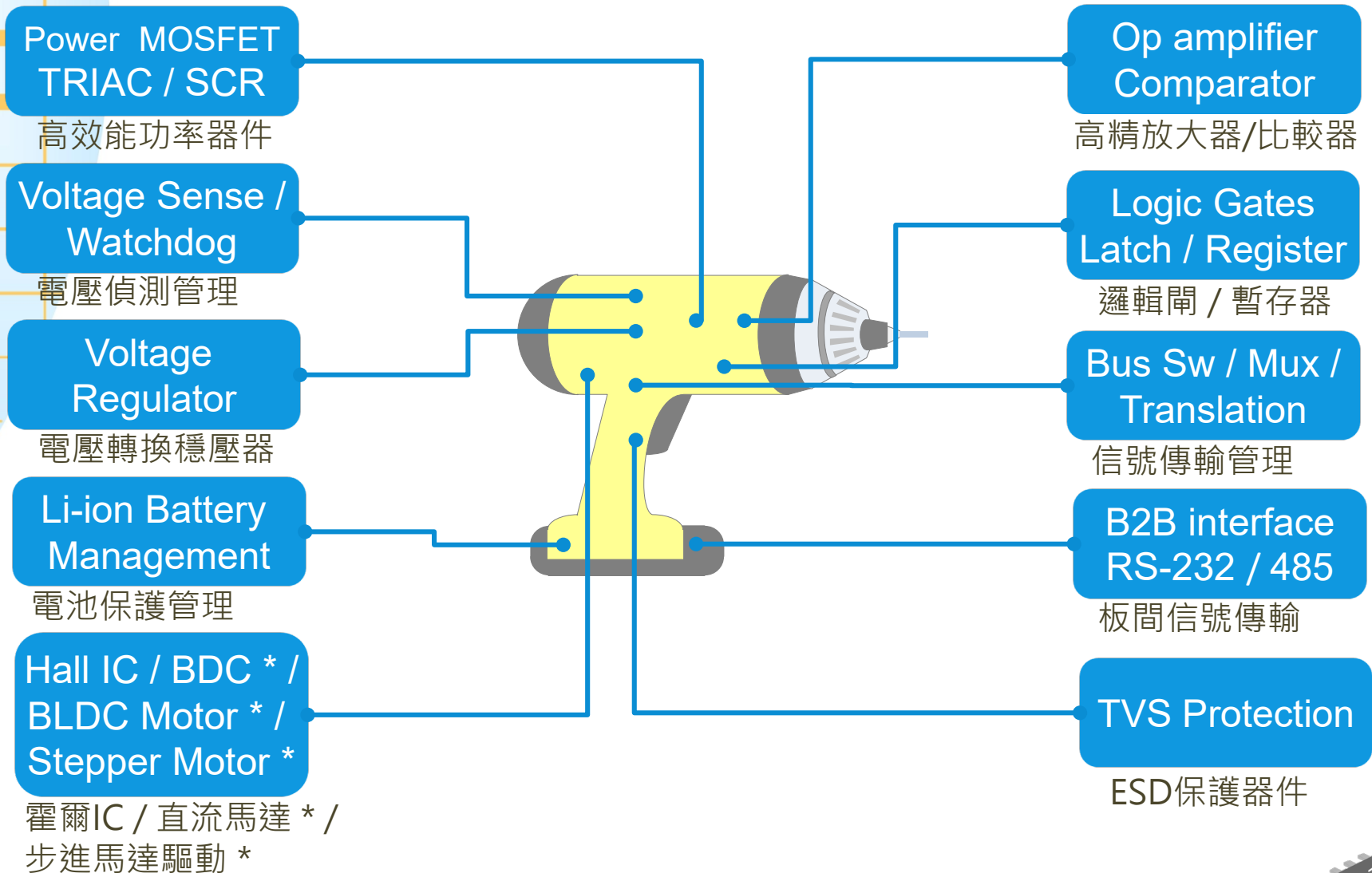
Category	Part No.	Description	Package
DC converter	UD05208	5V 2A 1.5MHz with power saving	SOT-25
DC converter	UD18209	18V 3A fast-response buck	SOT-26
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26
DC converter	UD38501	38V 5A synchronous step-down	HSOP-8
DC converter	UC3666	5V 1A 1.6MHz 2-ch in DFN3030	DFN3030-10
CMOS LDO	LR1801	1A fast LDO regulator	SOT-89 SOT-223 TO-252 HSOP-8
Dual-channel	LR6401	2-ch 0.3A LDO in DFN1820	SOT-26 DFN1616-6
Reset IC watchdog	UWD817	Reset & watchdog timer	SOT-25
Reset IC watchdog	UWD708	MCU supervisory circuit	SOP-8

Category	Part No.	Description	Package
Driver array	ULD2003	7-ch DMOS array sink-driver	SOP-16
Driver array	ULN2003	7-ch Darlington array driver	SOP-16 TSSOP-16 DIP-16
Driver array	62783	8-ch source-driver	SOP-18 SOP-20 TSSOP-20 DIP-18
RS232 line driver	UT232E	RS-232 line driver/receiver	SOP-16 DIP-16
RS232 line driver	UT3243A	RS-232 3-driver 5-receiver	TSSOP-28 SSOP-28 QFN-32
RS485 line driver	UTRS485	RS-485 driver/receiver (1UL)	SOP-8 DIP-8
RS485 line driver	UTRS3088	RS-485 driver/receiver (1/8UL)	SOP-8
Opto isolation	UPC817	Photo-coupler CTR 50~600	SMD-4 DIP-4 LSOP-4
Opto isolation	UOC3020S	Opto-isolator TRIAC output	DIP-4
Opto isolation	UPT3223	NZC Solid State Relay	DIP-8A

UTC Parts in Air Conditioner

Category	Part No.	Description	Package
Power MOSFET	F5N60	Rugged 600V Trr-optimized	TO-251 TO-252 TO-220/F
Power MOSFET	4P50	P-ch MOSFET -500V -4A	TO-251 TO-252 TO-220/F
Power MOSFET	18N25	N-ch MOSFET 250V 18A	TO-251 TO-252 TO-220/F
Power MOSFET	USG120N10	SGT 100V <4.5mΩ for SR	TO-220 TO-263
Power MOSFET	17P10	P-ch MOSFET -100V -17A	TO-251 TO-252 TO-220/F
Power MOSFET	UT3404	N-ch MOSFET 30V 5.8A	SOT-23 SOT-26 SOP-8
Power MOSFET	UT70P03	P-ch MOSFET -30V 70A	DFN5060-8 TO-252 TO-251 TO-220 TO-220F
Power MOSFET	UT8205A	2-ch NMOS 20V 6A	SOT-26 TSSOP-8 SOP-8
SCR	MCR100	200~600V 1A SCR	SOT-23 SOT-89 SOT-223 TO-92
TRIAC	BTA316A	3-Q logic / snubberless TRIAC	TO-220F
TRIAC	USS120	700V volt-clamping AC switch	TO-220F

UTC Parts in Power Tool



UTC Parts in Power Tool

Category	Part No.	Description	Package
DC converter	UD05208	5V 2A 1.5MHz with power saving	SOT-25
DC converter	UD18209	18V 3A fast-response buck	SOT-26
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26
DC converter	UC3666	5V 1A 1.6MHz 2-ch in DFN3030	DFN3030-10
CMOS LDO	LR1801	1A fast LDO regulator	SOT-89 SOT-223 TO-252 HSOP-8
Low- I_Q LDO	UR56xx	18V 0.5A LDO, $I_Q < 3\mu A$	SOT-25 SOT-89 TO-92
Dual-channel	LR6401	2-ch 0.3A LDO in DFN1820	SOT-26 DFN1616-6
Reset IC watchdog	UWD817	Reset & watchdog timer	SOT-25
Reset IC watchdog	UWD708	MCU supervisory circuit	SOP-8

UTC Parts in Power Tool

Category	Part No.	Description	Package
RS232 line driver	UT232E	RS-232 line driver/receiver	SOP-16 DIP-16
RS232 line driver	UT3243A	RS-232 3-driver 5-receiver	TSSOP-28 SSOP-28 QFN-32
RS485 line driver	UTRS485	RS-485 driver/receiver (1UL)	SOP-8 DIP-8
RS485 line driver	UTRS3088	RS-485 driver/receiver (1/8UL)	SOP-8
Logic gate	U74AUC1G08	1-ch 2-input AND gate	SOT-25 SOT-353
Logic gate	U74LVC2G32	2-ch 2-input OR gate	MSOP-8
Multiplexer	U74LVC1G3157	Analog SPDT switch	SOT-26 SOT-353
Multiplexer	U74LVX4051	8-ch analog multiplexer	SOP-16 TSSOP-16
Volt. Translator	UMX2215	1-to-4 analog mux 200MHz	SOP-16
Volt. Translator	U74AVC4T245	4-ch voltage translator	SOP-16 TSSOP-16
Volt. Translator	UTXB0104	4-bit auto-bidir. sw 100Mbps	TSSOP-14

UTC Parts in Power Tool

Category	Part No.	Description	Package
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
Op amplifier	ULV724	4-ch R2R amp 11MHz 8.5V/ μ s	SOP-14 TSSOP-14
Volt. comparator	ULC393	18V low-consumption comparator	SOP-8
Hall sensor latch	UH8102	Low-power proximity sensing	SOT-23 SIP-3
Hall sensor latch	SK1816	20V motor / rotation sensing	SOT-23 SIP-3
Signal switching MOSFET	2N7002K	60V N-ch ESD-proof MOSFET	SOT-23
Resistor-biased digital transistor	DTC143E	Digital transistor (2-ch available)	SOT-23 SOT-323 SOT-723 TO-92
ESD protection TVS array	SOT05C	Dual TVS for ESD protection	SOT-23

UTC Parts in Power Tool

Category	Part No.	Description	Package
Shunt voltage reference	ULVH431	431 reference $I_{k(min)} < 100\mu A$	SOT-23 SOT-25
Li-ion battery protection	UB24205	Li-ion/polymer cell protection IC with integrated MOSFET	SOP-8
Li-ion battery charge	UB6054A	Linear programmable charger IC for Li-ion/polymer cell	SOT-26
Power MOSFET	18N25	N-ch MOSFET 250V 18A	TO-251 TO-252 TO-220/F
Power MOSFET	17P10	P-ch MOSFET -100V -17A	TO-251 TO-252 TO-220/F
Power MOSFET	UT3404	N-ch MOS 30V 5.8A	SOT-23 SOT-26 SOP-8
Power MOSFET	UT70P03	P-ch MOS -30V 70A	DFN5060-8 TO-252 TO-251 TO-220 TO-220F
Power MOSFET	UT8205A	2-ch NMOS 20V 6A	SOT-26 TSSOP-8 SOP-8
Power MOSFET	USG120N10	SGT 100V $< 4.5m\Omega$ for SR	TO-220 TO-263
SCR	MCR100	200~600V 1A SCR	SOT-23 SOT-89 SOT-223 TO-92

Interface

RS232 串口傳輸

DC-DC

直流穩壓IC

Power Switch

USB 電源開關

Audio Amp. OP Amp.

音頻放大器
運算放大器

DDR Termination

DDR 終端穩壓IC

Linear Regulator

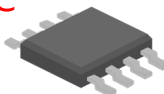
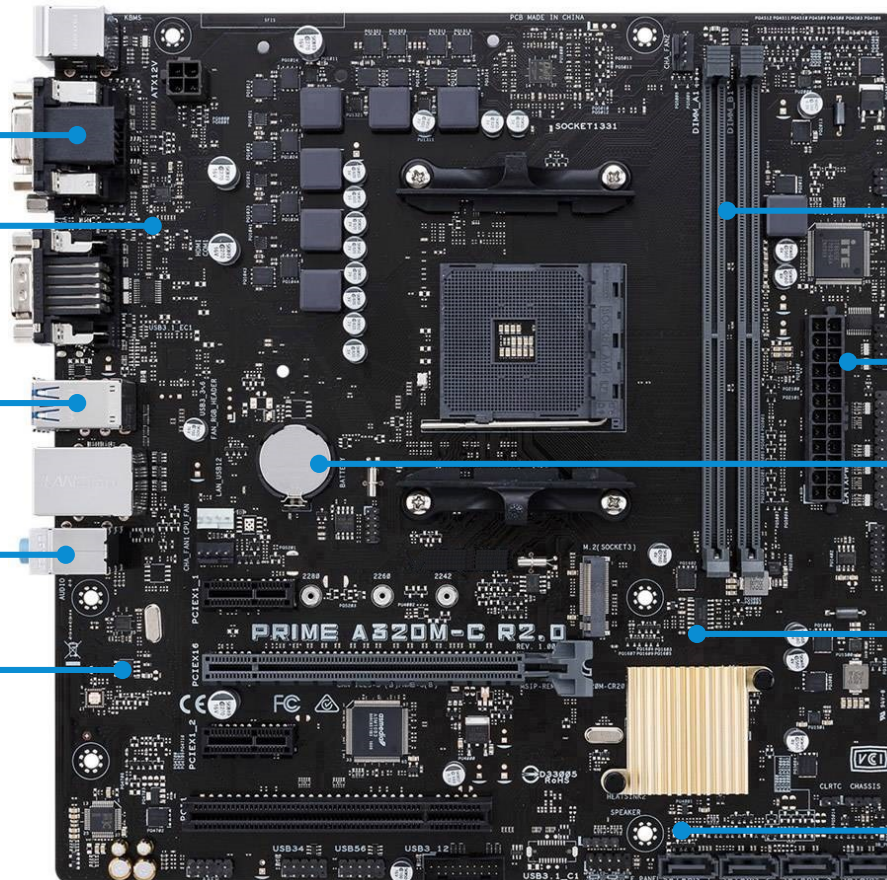
低功耗/低壓差
線性穩壓IC

Logic Analog Switch

74 系列邏輯閘
模擬開關

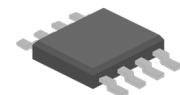
Volt. Detect Reset IC

電壓偵測
重置復位IC

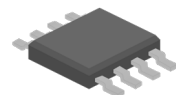


Category	Part No.	Description	Package
Low I _Q LDO	UR56XX	18V _{IN} , 500mA, 1.5~12V _{OUT} , Low I _Q (1.0~5.0uA)	SOT-89,SOT-23-3 SOT-23-5,TO-92
Low I _Q LDO	UR76XX	36V _{IN} , 500mA, 1.5~12V _{OUT} , Low I _Q (1.0~3.0uA)	SOT-89,SOT-23-3 SOT-23,SOT-23-5,TO-92
Low I _Q LDO	LR9280CG-15	6.5V _{IN} , 150mA, 1.5V Output, Low I _Q (0.7~1.5uA)	SOT-89,SOT-23-3, SOT-23 SOT-23-5,SOT-25,SOT-343 DFN2020-6
Ultra Low Drop LDO	L11831B	2.5~5.5V _{IN} , 3A, Adj. Output, 0.3V@3A V _{Drop}	HSOP-8, DFN3030-10
Ultra Low Drop LDO	LADLD32	1.2~3.65V _{IN} , 3A, Adj. Output, , 0.23V@3A V _{Drop}	HSOP-8
Ultra Low Drop LDO	LADLD37	1.0~5.5V _{IN} , 3A, Adj. Output, 0.2V@3A V _{Drop}	HSOP-8, DFN3030-10
Linear Regulator	UZ1084	15V _{IN} , 5A, Adj./fixed Output linear Regulator	TO-252, TO-252-3, TO-220 TO-220F, TO-263, TO-263-3
Linear Regulator	UZ2085	18V _{IN} , 3A, Adj./fixed Output linear Regulator	TO-252, TO-220, TO-220F TO-263, TO-263-3

Category	Part No.	Description	Package
DDR Termination	UR6517	1.0~5.5V _{IN} , 5.0V _{CNTL} , 1.8A, DDR/DDR4	HSOP-8
DDR Termination	UR6515D	1.5~2.5V _{IN} , 3.3~5.0V _{CNTL} , 3A, DDR2/DDR3	HSOP-8

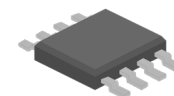


Category	Part No.	Description	Package
Logic	U74LV1T08	1.65~5.5V _{CC} , AND GATE (with Level Shifter)	SOT-353
Logic	U74AUP1G08	0.8~3.6V _{CC} , AND GATE (Low Power)	SOT-23-5, SOT-353, SOT-553 DFN1010-6
Logic	U74AUP1G07	0.8~3.6V _{CC} , BUFFER (with OD)	SOT-23-5, SOT-353, DFN1010-6
Logic	U74AUP1G32	0.8~3.6V _{CC} , OR GATE (Low Power)	SOT-23-5, SOT-353, DFN1010-6 DFN1410-6
Logic	U74LVC1G08	1.65~5.5V _{CC} , AND GATE	SOT-23-5, SOT-25, SOT-353 DFN1010-6
Logic	U74LVC2G07	1.65~5.5V _{CC} , Dual BUFFER (with OD)	SOT-26, SOT-363, DFN1010-6
Logic	U74LVC1G32	1.65~5.5V _{CC} , OR GATE	SOT-25, SOT-23-5, SOT-353
Logic	U74LVC1G86	1.65~5.5V _{CC} , XOR GATE	SOT-25, SOT-353, DFN1010-6
Logic	U74LVC257	1.65~3.6V _{CC} , Quad. 2 to1-LINE DATA SELECTORS	SOP-16, TSSOP-16
Logic	U74AHCT1G126	4.5~5.5V _{CC} , BUFFER (with 3-State)	SOT-25, SOT-353
Analog Switch	U74LVC1G3157	1.65~5.5V _{CC} , SPDT Analog Switch	SOT-26, SOT-363
Analog Switch	U74HC4052	2.0~10V _{CC} , Dual 4-CH Analog Switch	DIP-16, SOP-16, TSSOP-16



Category	Part No.	Description	Package
RRIO OP Amp.	LV2462/LV2463	2.7~6.0V _{CC} , Low Power, Dual Channel, 0.5~2mV _{OS} , 80dB CMRR, 95dB PSRR, (LV2463 with SHDN)	SOP-8, MSOP-8, MSOP-10
RRIO OP Amp.	ULV8551	2.7~5.0V _{CC} , Zero-Drift, Single Channel, 1~20μV _{OS} , 120dB CMRR, 110dB PSRR	SOP-8
OP Amp.	LM358	3~40V _{CC} , Dual Channel, 2~5mV _{OS} , 80dB CMRR, 100dB PSRR	DIP-8, SIP-9, TSSOP-8 SOP-8, MSOP-8, DFN2020-8
Audio Amp.	PA1517	18V _{CC} , Class-B 2 x 6W Stereo Power Amplifier	HSIP-9B, DIP-18, DIP-20

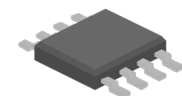
Category	Part No.	Description	Package
RS-232 Interface	UT3243A	3.0~5.5V _{CC} , 235Kbps, 3D5R, SHDN/EN Function	SSOP-28, TSSOP-28 QFN-32(5x5mm)
RS-232 Interface	UT213	4.5~5.5V _{CC} , 120Kbps, 4D5R, SHDN/EN Function	SOP-28, SSOP-28
RS-232 Interface	UT3221	3.0~5.5V _{CC} , 250Kbps, 1D1R, SHDN/EN Function	SSOP-16N, TSSOP-16
RS-232 Interface	UT3222	3.0~5.5V _{CC} , 250Kbps, 2D2R, SHDN/EN Function	SSOP-20N, TSSOP-20
RS-232 Interface	75185	±7.5~±15V _{DD} to V _{SS} , 4.5~5.5V _{CC} , 120Kbps, 3D5R	DIP-20, SOP-20, SSOP-20N TSSOP-20
RS-232 Interface	75232	±7.5~±15V _{DD} to V _{SS} , 4.5~5.5V _{CC} , 120Kbps, 3D5R	DIP-20, SOP-20, SSOP-20N TSSOP-20

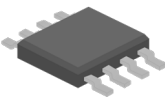


Category	Part No.	Description	Package
Reset & Watch Dog	UWD817	1.0~5.5V _{IN} , 2.63~4.65V _{DET} , Low Active, Push-Pull, 210mS T _{DELAY} , 1.7Sec. T _{WD}	SOT-25
MCU Supervisory	UWD708	1.0~5.5V _{IN} , 2.63~4.0V _{DET} , H/L Active, Push-Pull, 200mS T _{DELAY} , MR/FPI/FPO Function	SOP-8
Reset IC	8130G	10V _{CC} , 3.0V _{DET} ±3%, Low Active, Open-Drain, 20~60uS T _{DELAY}	SOT-89, SOT-23-3, SOT-23 SOT-25, TO-92
Reset IC	82N30G	12V _{IN} , 3.0V _{DET} ±2%, Low Active, Open-Drain, 0.2mS T _{DELAY}	SOT-89, SOT-23-3, SOT-23 SOT-25, TO-92

Category	Part No.	Description	Package
Power Switch	US107A/B/C	3.0~5.5V _{IN} , 2.2/1.7/1.2A I _{LIMIT} , Current Fold-Back, UVLO, OC Flag, Output Reverse Protection	SOT-25
Power Switch	US201A/B/C	3.0~5.5V _{IN} , 0.6/1.1/1.3/1.5A I _{LIMIT} , Current Fold-Back, UVLO, OC Flag	SOT-25
Power Switch	US211A/B/C	3.0~5.5V _{IN} , 0.6/1.0/1.3/1.5A I _{LIMIT} , Current Fold-Back, UVLO, OC Flag	SOT-25

Category	Part No.	Description	Package
DC-DC	MC34063A	3.0~40V _{CC} , 1.5A I _{sw} , 100Hz~100KHz Freq., Support Buck/Boost/Inverting Topology	DIP-8, SOP-8, TSSOP-8





UTC Parts in IP Camera

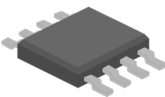
Category	Part No.	Description	Package
Low I _Q LDO	UR56XX	18V _{IN} , 500mA, 1.5~12V _{OUT} , Low I _Q (1.0~5.0uA)	SOT-89, SOT-23-3 SOT-23-5, TO-92
Low I _Q LDO	UR76XX	36V _{IN} , 500mA, 1.5~12V _{OUT} , Low I _Q (1.0~3.0uA)	SOT-89, SOT-23-3 SOT-23, SOT-23-5, TO-92
High PSRR LDO	UR6223	6.0V _{IN} , 300mA, 1.2~4.0V Fixed Output, 70~80dB PSRR, Inrush Current Protection	SOT-25, DFN1010-4
Low Noise LDO	LR9113	6.0V _{IN} , 300mA, 1.1~3.3V Fixed Output, 65dB PSRR, 30μVrms eN	SOT-25, SOT-23-5, DFN1010-4
Low Noise LDO	LR9102	6.0V _{IN} , 300mA, 1.0~3.6V Fixed Output, 75dB PSRR, 30μVrms eN	SOT-23-3, SOT-23-5, SOT-353 SOT-25, DFN1616-6, DFN1820-6
Low Noise LDO	L1138B	6.5V _{IN} , 800mA, 1.2~5.0V Fixed Output, 70~80dB PSRR	SOT-89-5, SOT-25, SOP-8
Low Drop LDO	LR1106	8.0V _{IN} , 400mA, 1.5~5.0V Fixed Output, 30uA Supply Current, 0.4V@200mA V _{Drop}	SOT-89, SOT-23, SOT-25 SOP-8, DFN1820-6

Category	Part No.	Description	Package
Reset & Watch Dog	UWD817	1.0~5.5V _{IN} , 2.63~4.65V _{DET} , Low Active, Push-Pull, 210mS T _{DELAY} , 1.7Sec. T _{WD}	SOT-25
MCU Supervisory	UWD708	1.0~5.5V _{IN} , 2.63~4.0V _{DET} , H/L Active, Push-Pull, 200mS T _{DELAY} , MR/FPI/FPO Function	SOP-8
Reset IC	81C29G-P	0.7~10V _{IN} , 2.9V _{DET} , Low Active, Push-Pull, 1~50mS T _{DELAY}	SOT-89, SOT-223, SOT-23-3 SOT-23, TO-92
Reset IC	UIC811-B	1.0~6.0V _{IN} , 2.93V _{DET} , Low Active, Push-Pull, 140~560mS T _{DELAY} , MR Function	SOT-23, SOT-23-3, SOT-143 SOT-343



UTC Parts in IP Camera

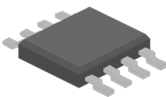
Category	Part No.	Description	Package
Motor Driver	UMD9111	5V _{CC} , 9.6V _{DD} , 1.5A I _{OUT_PEAK} , Motor Driver	SOP-8
Motor Driver	UMD9112	5V _{CC} , 6V _{DD} , 2.5A I _{OUT_PEAK} , Motor Driver	SOP-8
Motor Driver	UMD9113	5V _{CC} , 7V _{DD} , 3.5A I _{OUT_PEAK} , Motor Driver	DIP-8
Motor Driver	UMD9114	5V _{DD} , 550mA _(MAX.) , Motor Driver	SOT-26
Motor Driver	UMD9117	5V _{DD} , 550mA _(MAX.) , Motor Driver	SOT-26 DFN2020-8 (With sleep mode)
Motor Driver	UMD9137	7V _{CC} , 11V _{DD} , 1.8A I _{OUT_PEAK} , Motor Driver	SOP-8, HSOP-8, DFN2020-8
Motor Driver	BA6208	18V _{CC} , 500mA _(MAX.) , Reversible Motor Driver	DIP-8, SIP-9, SOP-8, MSOP-8
Darlington Arrays	ULN202	4 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	MSOP-10
Darlington Arrays	ULN2003	7 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-16,SOP-16,TSSOP-16
Darlington Arrays	ULN2004	7 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-16,SOP-16
Darlington Arrays	ULN2803	8 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-18,SOP-18,SOP-20 TSOP-20,QFN-20(4x4)
Darlington Arrays	ULN2084	8 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-18,SOP-18



UTC Parts in IP Camera

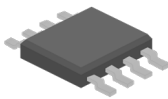
Category	Part No.	Description	Package
RRIO OP Amp.	LV2462/LV2463	2.7~6.0V _{CC} , Low Power, Dual Channel, 0.5~2mV _{OS} , 80dB CMRR, 95dB PSRR, (LV2463 with SHDN)	SOP-8, MSOP-8, MSOP-10
RRIO OP Amp.	ULV8551	2.7~5.0V _{CC} , Zero-Drift, Single Channel, 1~20μV _{OS} , 120dB CMRR, 110dB PSRR	SOP-8
RRO OP Amp.	ULV2772	2.5~6.0V _{DD} , High SR, Dual Channel, 0.44~2.7mV _{OS} , 84dB CMRR, 89dB PSRR, 9V/μs SR	SOP-8, TSSOP-8
RRO OP Amp.	LV358	2.7~5.5V _{CC} , Dual Channel, 1.7~7mV _{OS} , 63dB CMRR, 60dB PSRR	SOP-8, TSSOP-8, MSOP-8 DFN2030-8

Category	Part No.	Description	Package
LED Driver	L3060	5.0~30V _{IN} , 500mA, Buck LED Driver, 1MHz Freq. with Dimming Function	SOT-25
LED Driver	L3080	5.0~30V _{IN} , 800mA, Buck LED Driver, 1MHz Freq. with Dimming Function	SOT-89-5
LED Driver	L3010	4.5~40V _{IN} , 1A, Buck LED Driver, 280KHz Freq.	SOP-8
LED Driver	L3012	6.0~36V _{IN} , 1A, Buck LED Driver, 280KHz Freq. with Dimming Function	SOP-8
LED Driver	L4120	6.0~40V _{IN} , 1.2A, Buck LED Driver, 1MHz Freq. with Dimming Function	SOT-89-5
LED Driver	L5104	2.5~5.5V _{IN} , 1.4A I _{SW} , Boost LED Driver, 1MHz Freq. with 33V _{OVP} /PWM Dimming Function	SOT-26



UTC Parts in IP Camera

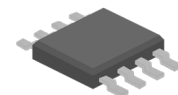
Category	Part No.	Description	Package
LV Buck Converter	UD05122	2.5~5.5V _{IN} , 1.2A, 0.6V _{FB} , 1.4MHz Freq., 1.2ms T _{SS}	SOT-25
LV Buck Converter	UD05151	3.0~5.5V _{IN} , 1.5A, 0.6V _{FB} , 1.5MHz Freq., 1.5ms T _{SS}	SOT-25
LV Buck Converter	UD05158	2.7~5.5V _{IN} , 1.5A, 0.6V _{FB} , 1.5MHz Freq., 1.5ms T _{SS}	DFN2020-6
LV Buck Converter	UD05205	2.5~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., LS Discharge	SOT-25
LV Buck Converter	UD05208	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05209	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 250us T _{SS}	SOT-25
LV Buck Converter	UD05251	2.6~5.5V _{IN} , 2.5A, 0.6V _{FB} , 1.2MHz Freq.	HSOP-8, DFN3030-8
LV Buck Converter	UD05303	3.0~5.5V _{IN} , 3A, 0.6V _{FB} , 1MHz Freq., with PG	HSOP-8
MV Buck Converter	UD16203	4.5~16V _{IN} , 2A, 0.6V _{FB} , 1.2MHz Freq., COT	SOT-26
MV Buck Converter	UD18203	4.5~18V _{IN} , 2A, 0.6V _{FB} , 500KHz Freq., COT	SOT-26
MV Buck Converter	UD18209	4.5~17V _{IN} , 2A, 0.6V _{FB} , 580KHz Freq., COT	SOT-26



UTC Parts in IP Camera

Category	Part No.	Description	Package
Audio Amp.	M4670	2.4~5.5V _{CC} , 3W Mono Class D Audio Amplifier	DFN3030-8
Audio Amp.	DPA5V3F	2.4~5.5V _{CC} , 2.8W Mono Class D Audio Amplifier	SOP-8

Category	Part No.	Description	Package
Transistor	MMBT3904	20V _{CEO} , 700mA, NPN	SOT-23, TO-92
Transistor	8050S	40V _{CEO} , 200mA, NPN	SOT-23, SOT-323, SOT-523 SOT-723
MOSFET	2N7002Z/ZW/ZT	60V _{DS} , 300mA, N-MOSFET (with ESD Protect)	SOT-23-3, SOT-323, SOT-523
MOSFET	UT2301	-20V _{DS} , -2.8A, P-MOSFET	SOT-23, SOT-23-3, SOT-323
MOSFET	UT2309	-30V _{DS} , -3.7A, P-MOSFET	SOT-23, SOT-23-3
MOSFET	UT2308	20V _{DS} , 2.7A, N-MOSFET	SOT-23, SOT-23-3
MOSFET	UT2316	30V _{DS} , 3.6A, N-MOSFET	SOT-23, SOT-23-3, SOT-223



UTC

Smart Meter Solution

R2R OP Amp.

軌對軌運放

DC-DC

直流穩壓IC

Photocoupler

光電耦合器

MOSFET Transistor

功率開關/電晶體

Bi-Direction Relay Driver

雙向繼電器驅動

Volt. Detect Reset IC

電壓偵測
重置復位IC

Linear Regulator

低功耗
線性穩壓IC

Logic

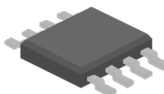
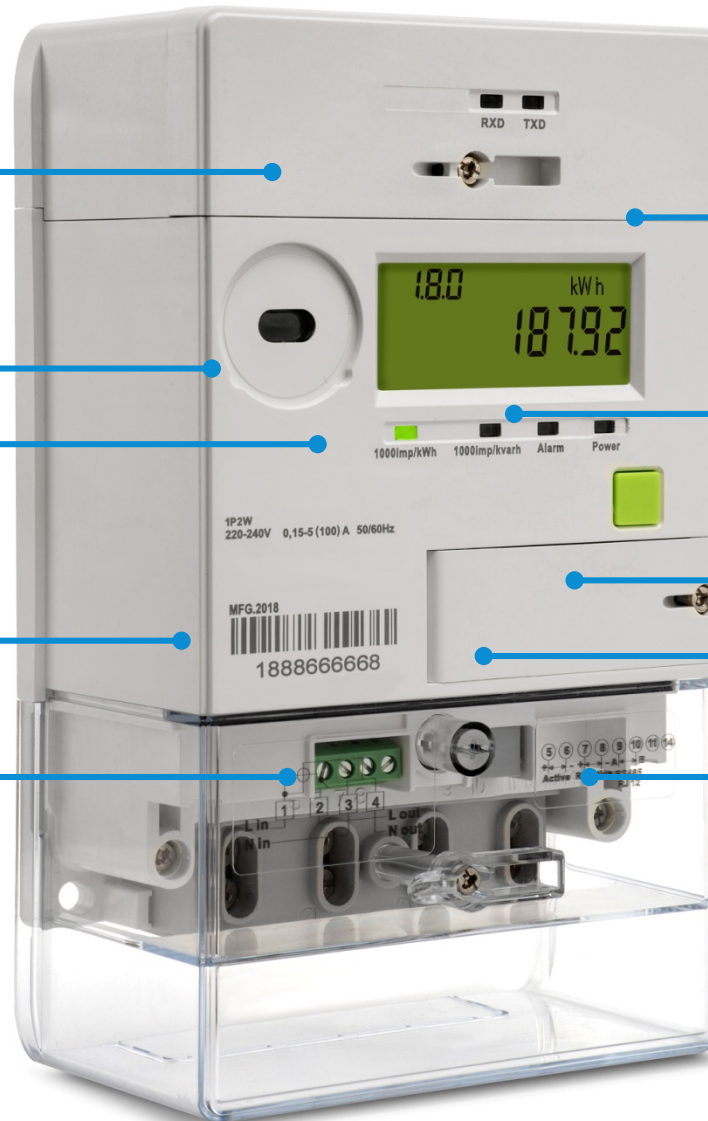
74 系列邏輯閘

Hall IC

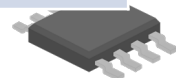
霍爾元件

Interface

RS 422/RS485
串口傳輸



Category	Part No.	Description	Package
Low I _Q LDO	UR56XX	18V _{IN} , 500mA, 1.5~12V _{OUT} , Low I _Q (1.0~5.0uA)	SOT-89, SOT-23-3 SOT-23-5, TO-92
Low I _Q LDO	UR75XX	36V _{IN} , 70~150mA, 1.5~12V _{OUT} , Low I _Q (1.0~3.0uA)	SOT-89, SOT-23-3 SOT-23, SOT-23-5, TO-92
Low I _Q LDO	UR76XX	36V _{IN} , 500mA, 1.5~12V _{OUT} , Low I _Q (1.0~3.0uA)	SOT-89, SOT-23-3 SOT-23, SOT-23-5, TO-92
Low I _Q LDO	LR9282G-33	6.5V _{IN} , 300mA, 3.3V Output, Low I _Q (1.0~1.5uA)	SOT-23-3, SOT-23-5, SOT-25 SOT-89, DFN1010-4
Voltage Regulator	LR1106	8.0V _{IN} , 400mA, 1.5~5.0V _{OUT}	SOT-23, SOT-25, SOT-89 SOP-8, DFN1820-6
Linear Regulator	LR1801	7.0V _{IN} , 1A, , Adj./fixed Output, 60~65dB PSRR	HSOP-8, SOT-89, SOT-89-5 TO-252, SOT-223
Voltage Regulator	78L05	30V _{IN} , 100mA, 5.0V Fixed Output, 60dB PSRR, 40μVrms eN	SOT-89, SOT-25, SOP-8 TO-92, TO-92NL
Voltage Regulator	78D05	35V _{IN} , 500mA, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	SOT-23-3, SOT-23-5, SOT-353 SOT-25, DFN1616-6, DFN1820-6
Voltage Regulator	LM7805	35V _{IN} , 1A, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	TO-220, TO-220F TO-262, TO-92
Voltage Regulator	LM317M	40V _{IN} , 500mA, 1.2~37V Adj. Output, 80dB PSRR	SOT-223, TO-220, TO-252 TO-263, SOP-8
Voltage Regulator	LD1117AG-ADJ	15V _{IN} , 1A, Adj./fixed Output linear Regulator	SOT-223, SOT-89, TO-220 TO-220F, TO-252, TO-252D TO-262, TO-263, TO-263-3 SOT-23-5, SOP-8, HSOP-8 DFN5060-8

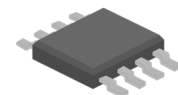


UTC Parts in Smart Meter

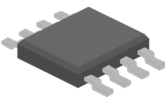
Category	Part No.	Description	Package
Reset & Watch Dog	UWD817	1.0~5.5V _{IN} , 2.63~4.65V _{DET} , Low Active, Push-Pull, 210ms T _{DELAY} , 1.7Sec. T _{WD}	SOT-25
MCU Supervisory	UWD708	1.0~5.5V _{IN} , 2.63~4.0V _{DET} , H/L Active, Push-Pull, 200ms T _{DELAY} , MR/FPI/FPO Function	SOP-8
Reset IC	UIC809-B	1.0~6.0V _{IN} , 2.93V _{DET} , Low Active, Push-Pull, 140~560ms T _{DELAY}	SOT-23-3

Category	Part No.	Description	Package
RRIO OP Amp.	LV2460/LV2461	2.7~6.0V _{CC} , Low Power, Single Channel, 0.5~2mV _{OS} , 85dB CMRR, 95dB PSRR, (LV2460 with SHDN)	SOT-26, SOT-25
RRIO OP Amp.	LV2462/LV2463	2.7~6.0V _{CC} , Low Power, Dual Channel, 0.5~2mV _{OS} , 80dB CMRR, 95dB PSRR, (LV2463 with SHDN)	SOP-8, MSOP-8, MSOP-10
RRIO OP Amp.	ULV8551	2.7~5.0V _{CC} , Zero-Drift, Single Channel, 1~20μV _{OS} , 120dB CMRR, 110dB PSRR	SOP-8
RRO OP Amp.	ULV2772	2.5~6.0V _{DD} , High SR, Dual Channel, 0.44~2.7mV _{OS} , 84dB CMRR, 89dB PSRR, 9V/μs SR	SOP-8, TSSOP-8

Category	Part No.	Description	Package
Relay Driver	URYD21	Bi-Direction 5~36V _{IN} , 300mA Driving Current 1μA I _Q , 10~18Ω R _{DS(ON)}	SOT-26



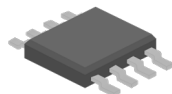
Category	Part No.	Description	Package
Logic	U74LVC1G04	1.65~5.5V _{CC} , INVERTER GATE	SOT-23-5, SOT-25, SOT-353
Logic	U74LVC1G14	1.65~5.5V _{CC} , Schmitt-Trigger INVERTER GATE	SOT-23-5, SOT-25, SOT-353
Logic	U74LVC1G17	1.65~5.5V _{CC} , Schmitt-Trigger Buffer	SOT-23-5, SOT-25, SOT-353
Logic	U74LVC02A	1.65~3.6V _{CC} , Quad. NOR GATE	SOP-14, TSSOP-14
Logic	U74AUP1G14	0.8~3.6V _{CC} , Schmitt-Trigger INVERTER (Low Power)	SOT-23-5, SOT-353
Logic	U74AUP1G57	0.8~3.6V _{CC} , Configurable Multiple Function (Low Power)	SOT-363
Analog Switch	U74HC4051	2.0~10V _{CC} , 8CH Analog Switch	DIP-16, SOP-16, TSSOP-16 QFN-16(3x3)
Analog Switch	U74HC4053	2.0~10V _{CC} , Triple 2CH Analog Switch	DIP-16, SOP-16, TSSOP-16
Voltage Translator	U74AUP1T34	1.1~3.6V _{CC} Dual Supply Translating Buffer (Low Power)	SOT-23-5, SOT-353
Voltage Translator	U74AVC4T245	1.2~3.6V _{CC} 4-bit Dual Supply Bus Transceiver (with Configurable Voltage Translation and 3-State)	SOP-16, TSSOP-16
Voltage Translator	UTXS0108	1.4~3.6V _{CCA} to 1.65~5.5V _{CCB} 8-bit Bidirectional (With Open-Drain and Push-Pull Application)	TSSOP-20



UTC Parts in Smart Meter

Category	Part No.	Description	Package
LV Buck Converter	UD05123	2.5~5.5V _{IN} , 1.2A, 0.6V _{FB} , 2.25MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05151	3.0~5.5V _{IN} , 1.5A, 0.6V _{FB} , 1.5MHz Freq., 1.5ms T _{SS}	SOT-25
LV Buck Converter	UD05205	2.5~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., LS Discharge	SOT-25
LV Buck Converter	UD05208	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05209	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 250us T _{SS}	SOT-25
MV Buck Converter	UD16203	4.5~16V _{IN} , 2A, 0.6V _{FB} , 1.2MHz Freq., COT	SOT-26
MV Buck Converter	UD18203	4.5~18V _{IN} , 2A, 0.6V _{FB} , 500KHz Freq., COT	SOT-26

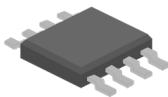
Category	Part No.	Description	Package
Photocoupler	UPC817	35V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UPC816	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UTC10XX	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} 00~10/14/15/18/19 Rank CTR=50~600%	LSOP-4



UTC Parts in Smart Meter

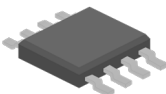
Category	Part No.	Description	Package
Hall IC	UH81062	Omni-polar, 2.2~5.5V _{IN} , 1.5~3.5uA I _{DD} , B _{OP} = 1.3~2.3mT/1.0~4mT, Active Low, Internal PP Resistor/Open-Drain/Push-Pull	SIP-3, SOT-23
Hall IC	UH8102B	Omni-polar, 2.4~5.5V _{IN} , 3.0~20uA I _{DD} , B _{OP} = 1.0~2.5mT/2.0~4.0mT/7.0mT, Active Low Open-Drain	SIP-3, SOT-23
Hall IC	UH8105	Omni-polar, 2.5~5.5V _{IN} , 5.0~10uA I _{DD} , B _{OP} = 1.5~4.5mT/1.5~3.5mT, Active Low Push-Pull	SOT-23-3

Category	Part No.	Description	Package
RS-232 Interface	UT3243A	3.0~5.5V _{CC} , 235Kbps, 3D5R, SHDN/EN Function	SSOP-28, TSSOP-28 QFN-32(5x5mm)
RS-232 Interface	UT3232	3.0~5.5V _{CC} , 250Kbps, 2D2R, SHDN/EN Function	SSOP-20N, TSSOP-20
RS-485 Interface	UTRS485	5.0V _{CC} , 500Kbps, 1D1R, EN Function, ±12KV ESD Protection	DIP-8, SOP-8
RS-485 Interface	UTRS3088	5.0V _{CC} , 1.0Mbps, 1D1R, EN Function, ±15KV ESD Protection	SOP-8
RS-485 Interface	UTRS3080	5.0V _{CC} , 500Kbps, 1D1R, EN Function, ±12KV ESD Protection	SOP-14



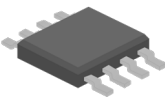
UTC Parts in Smart Meter

Category	Part No.	Description	Package
MOSFET	UD4606Z	$\pm 30V_{DS}$, 6.9A/-6A, N & P-Channel MOSFET (with ESD Protection)	SOP-8
MOSFET	UT5003Z	$\pm 30V_{DS}$, 7A/-5A, N & P-Channel MOSFET (with ESD Protection)	SOP-8
MOSFET	UT6402	30V _{DS} , 6.9A, N-MOSFET, $R_{DS(ON)}=22.5\sim 42m\Omega$	SOT-23, SOT-26
MOSFET	6N10	100V _{DS} , 6.5A, N-MOSFET, $R_{DS(ON)}=150\sim 450m\Omega$	TO-252, TO-252D SOT-223, SOP-8
MOSFET	3N80	800V _{DS} , 3A, N-MOSFET, $R_{DS(ON)}=3.2\sim 4.2\Omega$ $C_{ISS}=485pF$, $Q_G=19nC$	TO-220, TO-220F/F1/F2 TO-251/S4, TO-252
MOSFET	4N80-FCQ	800V _{DS} , 4A, N-MOSFET, $R_{DS(ON)}=4.7\Omega$ $C_{ISS}=520pF$, $Q_G=14.5nC$	TO-220F/F1/F2, TO-251, TO-252
MOSFET	2N90	900V _{DS} , 2.2A, N-MOSFET, $R_{DS(ON)}=5.7\sim 7.2\Omega$ $C_{ISS}=480pF$, $Q_G=16nC$	TO-220, TO-220F, TO-251 TO-252, TO-252D
MOSFET	2N90-C	900V _{DS} , 2A, N-MOSFET, $R_{DS(ON)}=6.5\Omega$ $C_{ISS}=375pF$, $Q_G=13.5nC$	TO-220, TO-220F/F1 TO-251, TO-252
MOSFET	4N120	1200V _{DS} , 4A, N-MOSFET, $R_{DS(ON)}=3.8\Omega$ $C_{ISS}=1340pF$, $Q_G=41nC$	TO-220, TO-220F



UTC Parts in Smart Meter

Category	Part No.	Description	Package
Transistor	2SB772SG-P	PNP, -30V _{CEO} , -3A, h _{FE} =160~320	SOT-223, SOT-89, TO-92
Transistor	2SB1132G-R	PNP, -32V _{CEO} , -1A, h _{FE} =180~390	SOT-89, SOT-23, SOT-323 TO-252
Transistor	2SB1260G-Q	PNP, -80V _{CEO} , -1A, h _{FE} =120~270	SOT-223, SOT-89, TO-252
Transistor	2SB649AL-C	PNP, -160V _{CEO} , -1.5A, h _{FE} =100~200	SOT-223, SOT-89, TO-252 TO-92/NL, TO-126/C/S
Transistor	2SC4672G-B	NPN, 50V _{CEO} , 3A, h _{FE} =200~400	SOT-89
Transistor	2SD669AG-C	NPN, 160V _{CEO} , 1.5A, h _{FE} =100~200	SOT-223, SOT-89, TO-252 SOT-23, TO-251, TO-92/NL TO126/C/S





Diode
-Rectifier
-Fast Rectifier

標準/快速 整流器
1N4007G, RS1M

Diode
-Schottky Diode

蕭特基二極體
SB140, SK34

LV MOS
-Trench MOS
-SGT MOS

低壓200V以下MOS
溝槽式/分離式閘極技術
(SGT MOS $R_{DS(ON)} = 1.95m\Omega \sim 21m\Omega$)

Diode
-Bridge Diode

橋式整流器
ASB28, UYBS3010

AC/DC PWM
(Controller/Combo MOS)
-SSR Mode (QR)

低待機高性能PWM
準諧振PWM
(外掛MOS/內包MOS)
UC3816A, UCS1655S

HV MOS
-Planar MOS
-SJ MOS

平面式 高壓600V~1500V MOS
超結技術 高壓600V~950V MOS
(SJ MOS $R_{DS(ON)} = 0.048\Omega \sim 19.2\Omega$)

Regulator
- Wide Voltage Regulator
*Transistor

Up to 80V寬電壓穩壓器
UAS16V, UAS18V

*Diode
(Low V_f Schottky)
-TGBR Series
-MGBR Series

低 V_f 蕭特基二極體
100V
 $V_F = 0.62V \sim 0.85V$

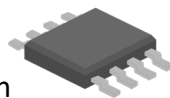
Diode
-Switching Diode

小訊號開關二極體
1N4148

Photocoupler

光耦合器
UPC817, UPC10XX

*other solution



Category	Part No.	Description	Package
HV MOS	4N65-ML	Planar MOS, VDSS=650V, ID=4A, RDS(ON) <2.6 Ω	TO-220, TO-220F, TO-220F1 TO-220F2, TO-251, TO-252
HV MOS	7N65-ML	Planar MOS, VDSS=650V, ID=7A, RDS(ON) <1.3 Ω	TO-220, TO-220F, TO-220F1 TO-220F2, TO-251, TO-262 TO-252, TO-263
HV MOS	10N65-ML	Planar MOS, VDSS=650V, ID=10A, RDS(ON) <1.0 Ω	TO-220, TO-220F, TO-220F1 TO-220F2

UTC Planar MOSFET :

VDSS = 50V~1500V

ID = 0.021A~150A

RDS(ON) = 0.006 Ω ~500 Ω

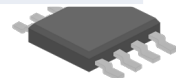
HV MOS	7NM70	SJ MOS, VDSS=700V, ID=7A, RDS(ON) <1 Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-220F3, TO-251, TO-251NS2, TO-252
HV MOS	18NM60	SJ MOS, VDSS=600V, ID=18A, RDS(ON) <0.3 Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-252, TO-263
HV MOS	24NM65	SJ MOS, VDSS=650V, ID=24A, RDS(ON) <0.16 Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-262, TO-263 TO-247, TO-247S

UTC SJ MOSFET :

VDSS = 500V~950V

ID = 0.2A~75A

RDS(ON) = 0.048 Ω ~19.2 Ω



Category	Part No.	Description	Package
LV MOS	UTT50N06M	N-CH Trench MOS, VDSS=60V, ID=50A, RDS(ON) <12m ohm	TO-220, TO-220F1, TO-251, DFN5060-8, TO-252
LV MOS	UTT80N08	N-CH Trench MOS, VDSS=80V, ID=80A, RDS(ON) <14m ohm	TO-220, TO-220F1, TO-220F2 TO-252, DFN5060-8
LV MOS	USG50N06	N-CH SGT MOS, VDSS=60V, ID=50A, RDS(ON) <6.5m ohm	TO-252, DFN5060-8, DFN3030-8
LV MOS	USG50N10	N-CH SGT MOS, VDSS=100V, ID=50A, RDS(ON) <11.5m ohm	DFN3030-8, DFN5060-8
LV MOS	USG80N10	N-CH SGT MOS, VDSS=100V, ID=80A, RDS(ON) <8m ohm	TO-220, TO-220F1, TO-220F2 TO-252, DFN5060-8
LV MOS	USG120N10	N-CH SGT MOS, VDSS=100V, ID=120A, RDS(ON) <4.5m ohm	TO-220, TO-263, DFN5060-8
LV MOS	UT4413	P-CH Trench MOS, VDSS=-30V, ID=15A, RDS(ON) <14m ohm	SOP-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	TO-252, SOP-8, DFN5060-8 DFN3030-8

UTC SGT MOS :

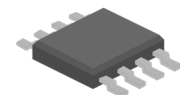
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

UTC P-CH Trench MOS :

VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



Category	Part No.	Description	Package
Diode	TGBR30S100C	Low Vf Schottky Diode, VR=100V, IF=30A, VF< 0.75V	TO-220, TO-220F, TO-220F1
Diode	MGBR20V200C	Low Vf Schottky Diode, VR=200V, IF=20A, VF< 0.81V	TO-220, TO-220F, TO-220F1

UTC TGBR Low VF Schottky :

@Single

VR = 40V~200V, IF = 3A~30A, VF = 0.45V~0.93V

@Dual

VR = 45V~150V, IF = 10A~40A, VF = 0.45V~0.89V

UTC MGBR Low VF Schottky :

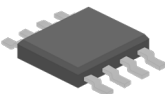
@Single

VR = 30V~300V, IF = 2A~40A, VF = 0.43V~0.97V

@Dual

VR = 30V~300V, IF = 6A~60A, VF = 0.4V~0.99V

Category	Part No.	Description	Package
Photocoupler	UPC817	Phototransistor Photocoupler, VF< 1.4V, VCEO=35V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4
Photocoupler	UPC816	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4
Photocoupler	UPC10XX	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	LSOP-4



Category	Part No.	Description	Protection								Package
			OLP	OVP	OTP	OCp	BNO	LNO	HV Start	Output OVP	
PWM	UC3816A	QR Mode, SSR Controller, Frequency 65KHz	V	V	V	V	V	V		Adjustable	SOT-26
PWM	UC3863A	SSR Controller, Programmable PWM Frequency	V	V	V	V					SOT-26 SOP-8 HSOP-8
PWM	UC3856	SSR Controller, Frequency 65KHz	V	V	V	V			UF601		SOT-26
PWM	US2652SQ	QR Mode, SSR Combo MOS, Frequency 65KHz, Internal Power MOSFET 650V/4ohm	V	V	V	V	V	V		Adjustable	DIP-7A
PWM	UCS1655S	SSR Combo MOS, Frequency 65KHz, Internal SJ MOSFET 650V/1.3ohm	V	V	V	V					DIP-7A DIP-8

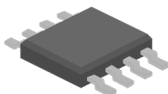
Category	Part No.	Description	Package
LDO	UAS16V	Wide Operating Range Regulator Transistor, VCC=20~80V, Iout=0.015A, Vout=16.1V	SOT-23-3, TO-92

Category	Part No.	Description	Package
Transistor	MMBT5551	NPN Transistor, VCBO=180V, VCEO=160V, IC=600mA, VCE(SAT)< 0.2V	SOT-23

Category	Part No.	Description	Package
Diode	ABS28	Bridge Diode, VR=800V, IF=2A, VF< 0.95V	ABS
Diode	UYBS3010	Bridge Diode, VR=1000V, IF=3A, VF< 1V	YBS

Category	Part No.	Description	Package
Diode	1N4007G	Rectifier, VR=1000V, IF=1A, VF=1.1V	DO-41
Diode	RS1M	Fast Recovery Rectifier, VR=1000V, IF=1A, VF=1.3V, Trr=500nS	DO-41, SMA
Diode	RS1D	Fast Recovery Rectifier, VR=200V, IF=1A, VF=1.3V, Trr=150nS	DO-41, SMA

Category	Part No.	Description	Package
Diode	1N4148	High Speed Switching Diode, VR=100V, IF=200mA, VF=1V, Trr=4nS	SOD-123, SOD-323, SOD-523 SOT-23, SOT-323



LDO Regulator -Ultra Low IQ -Low IQ

超低漏電穩壓器
LR9280, LR9282, UR56XX
低漏電穩壓器
LR9102, LR9153

Air Flow Induction Switch

氣流感應開關
UEC002, UEC1001

LV MOS -SGT MOS -Trench MOS -Combo MOS

30~40V低壓MOS
分離式閘極技術/溝槽式
USG170N03 ($R_{DS(ON)} < 2.64m\Omega$)
USG100N04 ($R_{DS(ON)} < 1.95m\Omega$)
UT8205A (Combo N-ch)

Battery Charger

鋰電池充電IC
UB2017, UB6054

Battery Protection

鋰電池保護IC
UB2421, UB2422, UB3421

Transistor

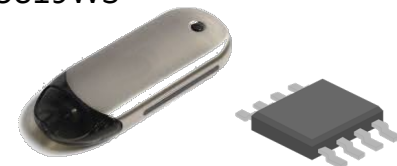
電晶體
MMBT3904, MMBT3906

Diode -Schottky Diode

蕭特基二極體
1N5819, B5819WS

Operational Amplifier

運算放大器
ULV335, ULV8551, OP07C



Category	Part No.	Description	Package
LV MOS	USG170N03	N-CH SGT MOS, VDSS=30V, ID=85A, RDS(ON) <2.64m ohm	DFN5060-8
LV MOS	USG100N04	N-CH SGT MOS, VDSS=40V, ID=100A, RDS(ON) <1.95m ohm	DFN5060-8, TO-252
LV MOS	USG60P03	P-CH SGT MOS, VDSS=-30V, ID=-60A, RDS(ON) <10m ohm	DFN3030-8, DFN5060-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	DFN3030-8, DFN5060-8, SOP-8, TO-252
LV MOS	UT3404	N-CH Trench MOS, VDSS=30V, ID=5.8A, RDS(ON) <28m ohm	SOT-23, SOT-26, SOP-8
LV MOS	2N7002	N-CH Trench MOS, VDSS=60V, ID=0.3A, RDS(ON) <2 ohm	SOT-23-3
LV MOS	UT2301	P-CH Trench MOS, VDSS=-20V, ID=-2.8A, RDS(ON) <130m ohm	SOT-23, SOT-23-3, SOT-323
Combo MOS	UT8205A	Dual N-CH MOS, VDSS=20V, ID=6A, RDS(ON) <28m ohm	SOT-26, SOP-8, TSSOP-8

UTC SGT MOS :

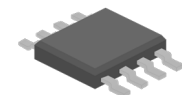
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

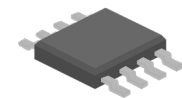
UTC P-CH Trench MOS :

VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



Category	Part No.	Description	Package
Air Flow Induction Switch	UEC002	for Electronic Cigarettes Control, VDD=1.7V~5.0V, IQ<5uA, T=30mS~100mS	SOT-25
Air Flow Induction Switch	UEC1001	for Electronic Cigarettes Control, VDD=2.5V~4.2V, IQ<5uA, T=46mS, TOP_MAX=15S	SOT-26

Category	Part No.	Description	Package
LDO	LR9280	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 6V, Iout=0.15A, VD<0.35V~1.2V	SOT-25, SOT-23-5, SOT-23, SOT-23-3, SOT-89, SOT-343, DFN2020-6
LDO	LR9282	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 7V, Iout=0.3A, VD<0.18V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, DFN1010-4
LDO	UR56XX	Ultra Low IQ LDO Regulator, IQ<3~5uA, Vin up to 18V, Iout=0.5A, VD<0.15V~0.24V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, TO-92
LDO	LR9102	Low IQ LDO Regulator, IQ<90uA, Vin up to 6V, Iout=0.3A, VD<0.19V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-353, DFN1616-6, DFN1820-6
LDO	LR9153	Low IQ LDO Regulator, IQ<80uA, Vin up to 6V, Iout=0.5A, VD=0.3V~0.87V	SOT-25, DFN1010-4



Category	Part No.	Description	Package
Battery Protection	UB2421	One Cell Li-Battery Protection, VDD=1.8V~6.5V, IDD<8uA, VOCU=4.3V, VOCR=4.1V, VODL=2.4V, VODR=3.0V, VOI1=0.15V	SOT-26
Battery Protection	UB2422	One Cell Li-Battery Protection, VDD=1.8V~6.5V, IDD<8uA, VOCU=3.9V~4.5V, VOCR=3.8V~4.5V, VODL=2V~3V, VODR=2V~3V, VOI1=0.1V~0.2V	SOT-26
Battery Protection	UB3421	One Cell Li-Battery Protection, VDD=1.8V~6.5V, IDD<8uA, VOCU=3.9V~4.4V, VOCR=3.8V~4.4V, VODL=2V~3V, VODR=2V~3.4V, VOI1=0.1V~0.2V	SOT-26

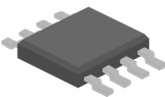
Category	Part No.	Description	Package
Battery Charger	UB2017	One Cell Li-Battery Charger, VCC=4.5V~6V, IBAT=0.5A, VFLOA=4.2V	SOT-26
Battery Charger	UB6054	One Cell Li-Battery Charger, VCC=4.5V~6V, IBAT=0.5A, VFLOA=4.2V	SOT-25

Category	Part No.	Description	Package
OP	ULV335	Zero-Drift, Single Operational Amplifier, Rail-to-Rail Output , VCC=2.7V~5.5V, IQ<600uA, VIO<20uV, SR=1.6V/uS, BW=2MHz	SOP-8
OP	ULV8551	Zero-Drift, Single Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.7V~5V, IQ<1mA, VIO<20uV, SR=0.4V/uS, BW=1MHz	SOT-25, SOP-8
OP	OP07C	Very Low Offset Voltage, Single Operational Amplifier, External offset voltage Adjustment, VCC=±3V~±18V, IQ<5mA, VIO=60uV, SR=0.3V/uS, BW=0.6MHz	SOP-8

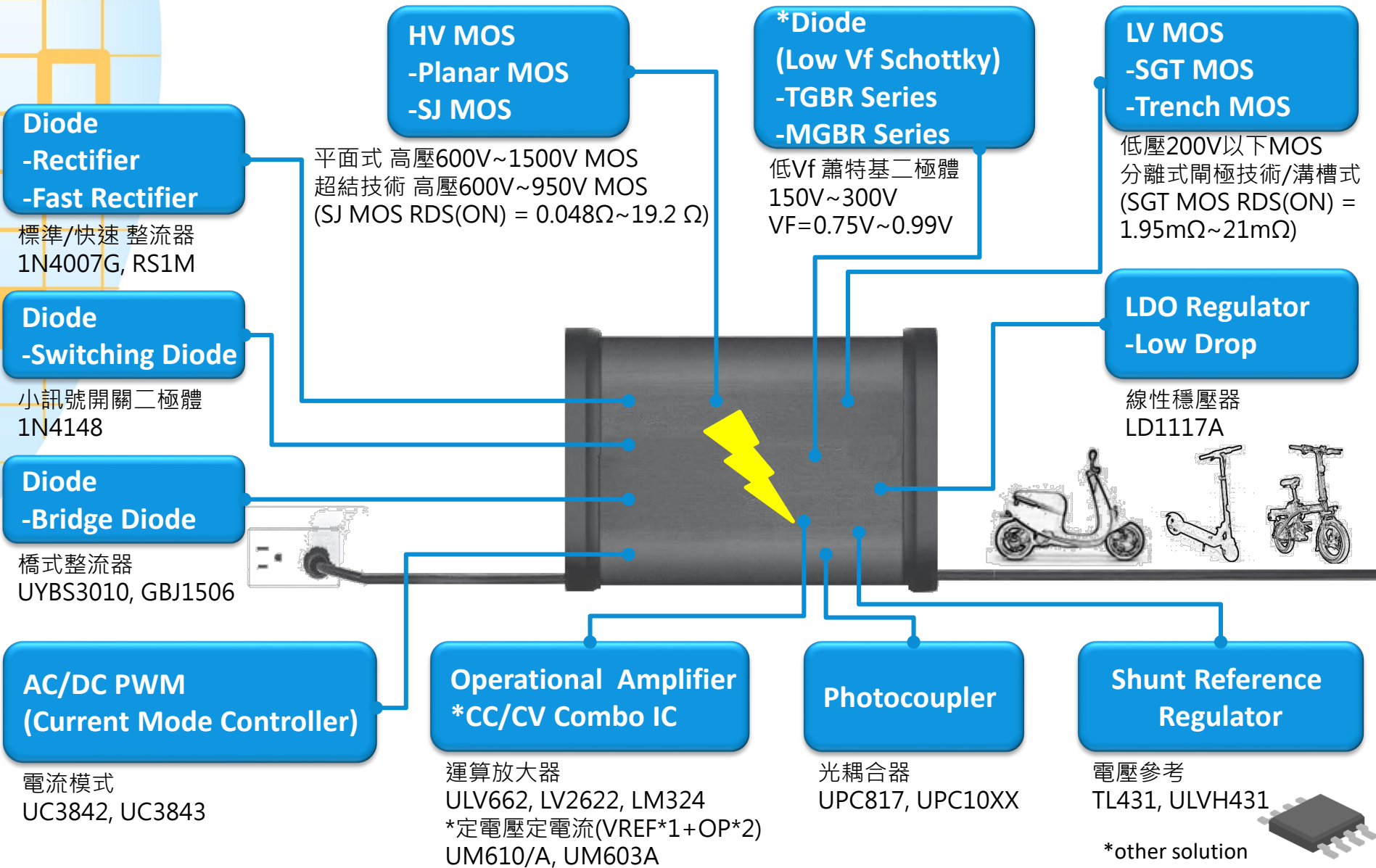


Category	Part No.	Description	Package
Transistor	MMBT3904	NPN Transistor, VCBO=60V, VCEO=40V, IC=200mA, VCE(SAT)<0.2V, hFE=100~300	SOT-23, SOT-323, SOT-523, SOT-723
Transistor	MMBT3906	PNP Transistor, VCBO=-40V, VCEO=-40V, IC=-200mA, VCE(SAT)<0.25V, hFE=100~300	SOT-23, SOT-323, SOT-523

Category	Part No.	Description	Package
Diode	1N5819	Schottky Diode, VR=40V, IF=1A, VF<0.6V	SOD-123, SOD-123S
Diode	B5819WS	Schottky Diode, VR=40V, IF=1A, VF<0.6V	SOD-323



E-Bike Charger Solution



Category	Part No.	Description	Package
HV MOS	10N65-ML	Planar MOS, VDSS=650V, ID=10A, RDS(ON) <1.0 Ω	TO-220, TO-220F, TO-220F1 TO-220F2, TO-262, TO-263
HV MOS	12N60-ML	Planar MOS, VDSS=600V, ID=12A, RDS(ON) <0.74 Ω	TO-220, TO-220F, TO-220F1 TO-220F2, TO-262, TO-263
HV MOS	12N65-ML	Planar MOS, VDSS=650V, ID=12A, RDS(ON) <0.85 Ω	TO-220, TO-220F, TO-220F1 TO-220F2, TO-262, TO-263

UTC Planar MOSFET :

VDSS = 50V~1500V

ID = 0.021A~150A

RDS(ON) = 0.006 Ω ~500 Ω

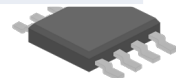
HV MOS	18NM60	SJ MOS, VDSS=600V, ID=18A, RDS(ON) <0.3 Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-247, TO-263, TO-3P
HV MOS	21NM60	SJ MOS, VDSS=600V, ID=21A, RDS(ON) <0.19 Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-247, TO-263, TO-3P
HV MOS	24NM65	SJ MOS, VDSS=650V, ID=24A, RDS(ON) <0.16 Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-262, TO-263 TO-247, TO-247S

UTC SJ MOSFET :

VDSS = 500V~950V

ID = 0.2A~75A

RDS(ON) = 0.048 Ω ~19.2 Ω



Category	Part No.	Description	Package
LV MOS	USG50N06	N-CH SGT MOS, VDSS=60V, ID=50A, RDS(ON) <6.5m ohm	TO-252, DFN5060-8, DFN3030-8
LV MOS	USG50N10	N-CH SGT MOS, VDSS=100V, ID=50A, RDS(ON) <11.5m ohm	DFN3030-8, DFN5060-8
LV MOS	USG80N10	N-CH SGT MOS, VDSS=100V, ID=80A, RDS(ON) <8m ohm	TO-220, TO-220F1, TO-220F2 TO-252, DFN5060-8
LV MOS	USG120N10	N-CH SGT MOS, VDSS=100V, ID=120A, RDS(ON) <4.5m ohm	TO-220, TO-263, DFN5060-8
LV MOS	USG50N15	N-CH SGT MOS, VDSS=150V, ID=50A, RDS(ON) <21m ohm	TO-252, DFN5060-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	TO-252, SOP-8, DFN5060-8 DFN3030-8
LV MOS	UTT50N06M	N-CH Trench MOS, VDSS=60V, ID=50A, RDS(ON) <12m ohm	TO-220, TO-220F1, TO-251, DFN5060-8, TO-252
LV MOS	UTT80N08	N-CH Trench MOS, VDSS=80V, ID=80A, RDS(ON) <14m ohm	TO-220, TO-220F1, TO-220F2 TO-252, DFN5060-8

UTC SGT MOS :

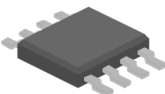
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

UTC P-CH Trench MOS :

VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



UTC Parts in E-Bike Charger

Category	Part No.	Description	Package
Diode	TGBR30S100C	Low Vf Schottky Diode, VR=100V, IF=30A, VF< 0.75V	TO-220, TO-220F, TO-220F1
Diode	MGBR20V200C	Low Vf Schottky Diode, VR=200V, IF=20A, VF< 0.81V	TO-220, TO-220F, TO-220F1

UTC TGBR Low VF Schottky :

@Single

VR = 40V~200V, IF = 3A~30A, VF = 0.45V~0.93V

@Dual

VR = 45V~150V, IF = 10A~40A, VF = 0.45V~0.89V

UTC MGBR Low VF Schottky :

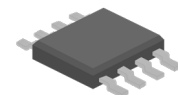
@Single

VR = 30V~300V, IF = 2A~40A, VF = 0.43V~0.97V

@Dual

VR = 30V~300V, IF = 6A~60A, VF = 0.4V~0.99V

Category	Part No.	Description	Package
Photocoupler	UPC817	Phototransistor Photocoupler, VF< 1.4V, VCEO=35V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4
Photocoupler	UPC816	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4
Photocoupler	UPC10XX	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	LSOP-4

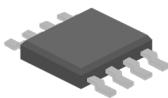


UTC Parts in E-Bike Charger

Category	Part No.	Description	Package
PWM	UC3842A/B	Current Mode PWM Controller, Current Mode Operation to 500 kHz, Pulse-by-Pulse Current Limiting, Under voltage Lockout With Hysteresis VTH(ST)=14.5V~17.5V VOPR(MIN)=8.5V~11.5V	DIP-8, SOP-8
PWM	UC3843A/B	Current Mode PWM Controller, Current Mode Operation to 500 kHz, Pulse-by-Pulse Current Limiting, Under voltage Lockout With Hysteresis VTH(ST)=7.8V~9V VOPR(MIN)=7V~8.2V	DIP-8, SOP-8

Category	Part No.	Description	Package
LDO	LD1117A-xx	Low Drop Regulator, Vin up to 15V, IOU=1A, VD<1.3V, IQ<10mA, VOUT=1.2V, 1.5V, 1.8V, 2.5V, 2.85V, 3V, 3.3V, 3.6V, 5V, ADJ	TO-220, TO-220F, TO-262, TO-263, TO-263-3, TO-252, TO-252D, SOT-89, SOT-223, SOT-23-5, SOP-8, HSOP-8, DFN5060-8

Category	Part No.	Description	Package
Shunt Reference Regulator	TL431	Adjustable Precision Shunt Regulator, VKA=Vref~36V, IKA=1~100mA, VREF=2.495V, IKA(min) <0.5mA	SOT-23-3, SOT-23, TSOT-23, SOT-25, SOT-89, SOP-8, TO-92, SIP-3

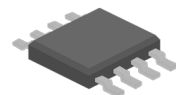


UTC Parts in E-Bike Charger

Category	Part No.	Description	Package
OP	ULV662	Dual Operational Amplifier, Rail-to-Rail Output , VCC=2.5V~5.5V, IQ<9mA, VIO<1.5mV, SR=32V/uS, BW=50MHz	SOP-8, MSOP-8
OP	LV2622	Dual Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.5V~5.5V, IQ<0.4mA, VIO<3mV, SR=1.7V/uS, BW=3MHz	SOP-8, MSOP-8 TSSOP-8
OP	LM324	Quad Operational Amplifier, VCC=3V~32V, VIO<5mV	DIP-14, SOP-14, TSSOP-14,QFN-16(3*3)

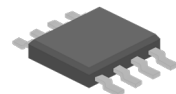
Category	Part No.	Description	Package
CC/CV	UM610/A	Constant Voltage and Constant Current Control VCC=3.5V~36V, VREF=2.5V, VSENSE =29mV~31mV(for UM610A) 、 46.5mV~49.5mV(for UM610)	SOT-26
CC/CV	UM603A	Dual Operational Amplifier and Current Controller, VCC=3V~32V, VREF=2.5V, VIO <2mV(for UM603A-1) 、 <4mV(for UM603A-2)	SOP-8, TSSOP-8

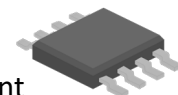
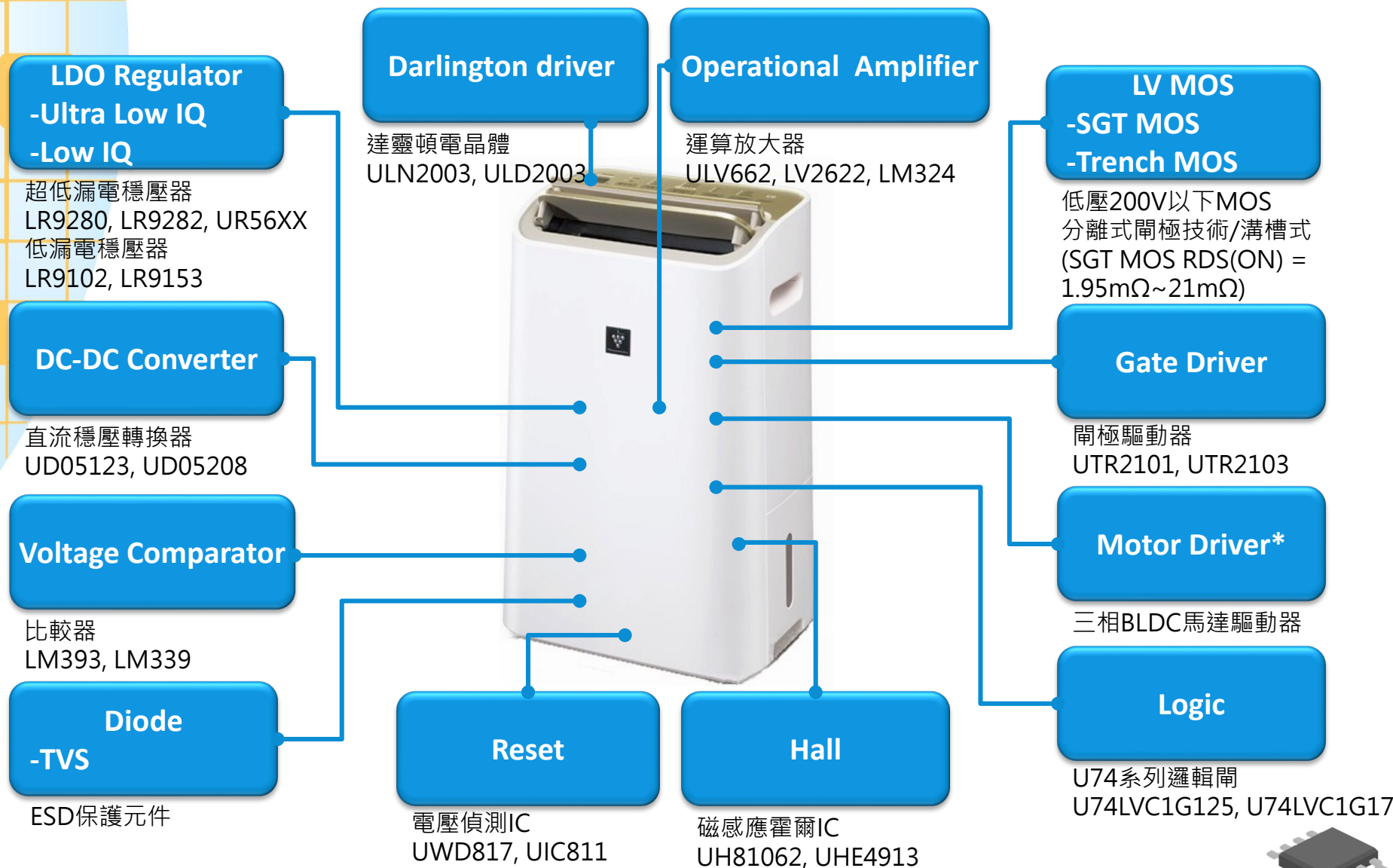
Category	Part No.	Description	Package
Diode	UYBS3010	Bridge Diode, VR=1000V, IF=3A, VF< 1V	YBS
Diode	GBJ1506	Bridge Diode, VR=600V, IF=3.5A, VF< 1V	GBJ



UTC Parts in E-Bike Charger

Category	Part No.	Description	Package
Diode	1N4007G	Rectifier, VR=1000V, IF=1A, VF=1.1V	DO-41
Diode	RS1M	Fast Recovery Rectifier, VR=1000V, IF=1A, VF=1.3V, Trr=500nS	DO-41, SMA
Diode	RS1D	Fast Recovery Rectifier, VR=200V, IF=1A, VF=1.3V, Trr=150nS	DO-41, SMA
Category	Part No.	Description	Package
Diode	1N4148	High Speed Switching Diode, VR=100V, IF=200mA, VF=1V, Trr=4nS	SOD-123, SOD-323, SOD-523 SOT-23, SOT-323





Category	Part No.	Description	Package
LV MOS	USG170N03	N-CH SGT MOS, VDSS=30V, ID=85A, RDS(ON) <2.64m ohm	DFN5060-8
LV MOS	USG100N04	N-CH SGT MOS, VDSS=40V, ID=100A, RDS(ON) <1.95m ohm	DFN5060-8, TO-252
LV MOS	USG50N06	N-CH SGT MOS, VDSS=60V, ID=50A, RDS(ON) <6.5m ohm	TO-252, DFN5060-8, DFN3030-8
LV MOS	USG80N10	N-CH SGT MOS, VDSS=100V, ID=80A, RDS(ON) <8m ohm	TO-220, TO-220F1, TO-220F2 TO-252, DFN5060-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	DFN3030-8, DFN5060-8, SOP-8, TO-252
LV MOS	UT3404	N-CH Trench MOS, VDSS=30V, ID=5.8A, RDS(ON) <28m ohm	SOT-23, SOT-26, SOP-8
LV MOS	UTT50N06M	N-CH Trench MOS, VDSS=60V, ID=50A, RDS(ON) <12m ohm	TO-220, TO-220F1, TO-251, DFN5060-8, TO-252
LV MOS	UT2305	P-CH Trench MOS, VDSS=-20V, ID=-4.2A, RDS(ON) <53m ohm	SOT-23, SOT-23-3, SOT-26

UTC SGT MOS :

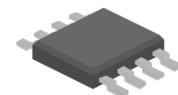
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

UTC P-CH Trench MOS :

VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



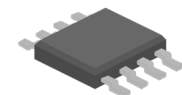
Category	Part No.	Description	Package
LDO	LR9280	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 6V, Iout=0.15A, VD<0.35V~1.2V	SOT-25, SOT-23-5, SOT-23, SOT-23-3, SOT-89, SOT-343, DFN2020-6
LDO	LR9282	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 7V, Iout=0.3A, VD<0.18V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, DFN1010-4
LDO	UR56XX	Ultra Low IQ LDO Regulator, IQ<3~5uA, Vin up to 18V, Iout=0.5A, VD<0.15V~0.24V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, TO-92
LDO	LR9102	Low IQ LDO Regulator, IQ<90uA, Vin up to 6V, Iout=0.3A, VD<0.19V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-353, DFN1616-6, DFN1820-6
LDO	LR9153	Low IQ LDO Regulator, IQ<80uA, Vin up to 6V, Iout=0.5A, VD=0.3V~0.87V	SOT-25, DFN1010-4

Category	Part No.	Description	Package
DC-DC	UD05123	Buck Converter, Vin=2.5V~5.5V, Iout=1.2A, VFB=0.6V, Fosc=2.25MHz	SOT-25
DC-DC	UD05208	Buck Converter, Vin=2.7V~5.5V, Iout=2A, VFB=0.6V, Fosc=1.5MHz	SOT-25
DC-DC	UD18203	Buck Converter, Vin=4.5V~18V, Iout=2A, VFB=0.6V, Fosc=500KHz	SOT-26

UTC Parts in Air Purifier

Category	Part No.	Description	Package
OP	ULV662	Dual Operational Amplifier, Rail-to-Rail Output , VCC=2.5V~5.5V, IQ<9mA, VIO<1.5mV, SR=32V/uS, BW=50MHz	SOP-8, MSOP-8
OP	LV2622	Dual Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.5V~5.5V, IQ<0.4mA, VIO<3mV, SR=1.7V/uS, BW=3MHz	SOP-8, MSOP-8, TSSOP-8
OP	LM358	Dual Operational Amplifier, VCC=3V~32V, VIO<5mV	MSOP-8, TSSOP-8, SOP-8, DIP-8, SIP-9, DFN2020-8
OP	LM324	Quad Operational Amplifier, VCC=3V~32V, VIO<5mV	DIP-14, SOP-14, TSSOP-14, QFN-16(3*3)

Category	Part No.	Description	Package
Comparator	LM393	Dual Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<5mV	MSOP-8, TSSOP-8, SOP-8, DIP-8, DFN2020-8
Comparator	LM339	Quad Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<3mV	DIP-14, SOP-14, TSSOP-14, QFN-16(3*3)

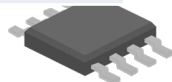


UTC Parts in Air Purifier

Category	Part No.	Description	Package
Darlington driver	ULD2003	7 CH DMOS Transistor Array, Vout=50V, Iout=500mA, I _{leak} <1uA	SOP-16
Darlington driver	ULN2003	7 CH NPN Darlington Array, , Vout=50V, Iout=500mA, I _{leak} <100uA	DIP-16, SOP-16, TSSOP-16

Category	Part No.	Description	Package
Reset	UWD817	Push pull Output active Low , with Watch dog & MR , Vin=1V~5.5V, V _{th} =2.63V 、 2.93V 、 3.08V 、 4V 、 4.4V 、 4.6V, Delay time=140mS~280mS	SOT-25
Reset	UIC811	Push pull Output active Low , with/without MR, Vin=1V~6V, V _{th} =2.63V 、 2.93V 、 3.08V 、 4V 、 4.38V 、 4.63V 、 5V, Delay time=140mS~560mS	SOT-23, SOT-23-3, SOT-143, SOT-343

Category	Part No.	Description	Package
Logic	U74LVC1G17	Single Schmitt-trigger Buffer, VCC=1.65V~5.5V	SOT-25, SOT-23-5, SOT-353
Logic	U74LVC1G125	Single Bus Buffer/Line Driver, VCC=1.65V~5.5V	SOT-25, SOT-23-5, SOT-353

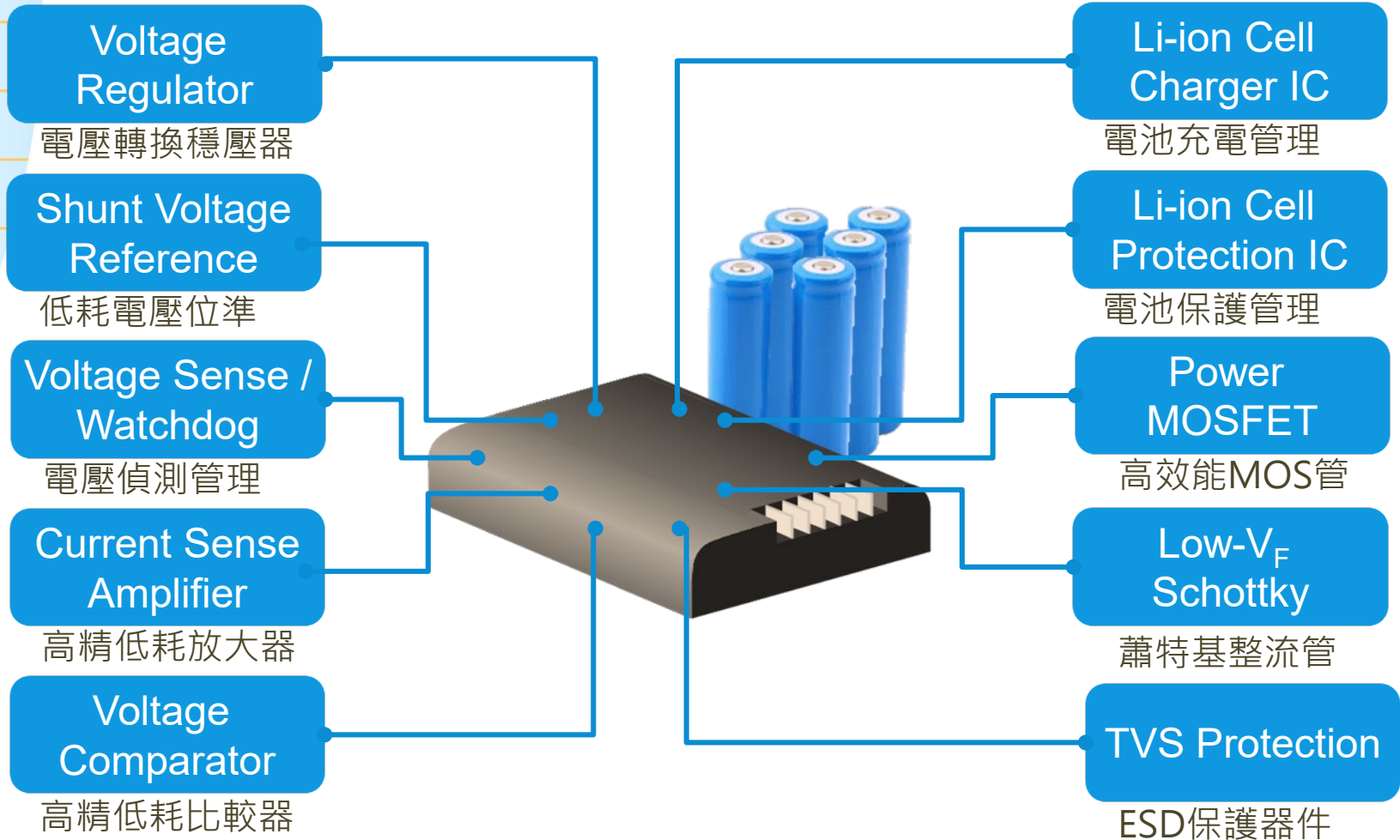


Category	Part No.	Description	Package
Hall	UH81062	Omni-Polar, VDD=2.2V~5.5V, IDD<3.5uA, RANK 1 : Bop=13~23 Gauss, Brp=3~15 Gauss, RANK 2 : Bop<40 Gauss, Brp>5 Gauss, Internal pull-up resistor / NMOS open-drain / CMOS push-pull Output	SIP-3, SOT-23
Hall	UHE4913	Omni-Polar, VDD=2.4V~5.5V, Bop=20~50 Gauss, Brp=12~42 Gauss, NMOS open-drain Output	SIP-3, SOT-23

Category	Part No.	Description	Package
Gate Driver	UTR2101	Half-Bridge Driver, VCC=10V~20V, IQCC<270uA, VS=600V	SOP-8
Gate Driver	UTR2103	Half-Bridge Driver, Internally set dead time VCC=10V~20V, IQCC<270uA, VS=600V	DIP-8

Category	Part No.	Description	Package
TVS	SMCJ	for ESD protection, Uni-directional / Bi-directional, VBR>6.4V~492V, VRWM=5V~440V	SMC
TVS	SRV05-4	Low Capacitance TVS Diode Array, VBR>6V, VRWM=5V, VC<12V, IR<5uA, CJ<1.2pF	SOT-26

UTC Parts in Battery Pack



UTC Parts in Battery Pack

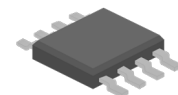
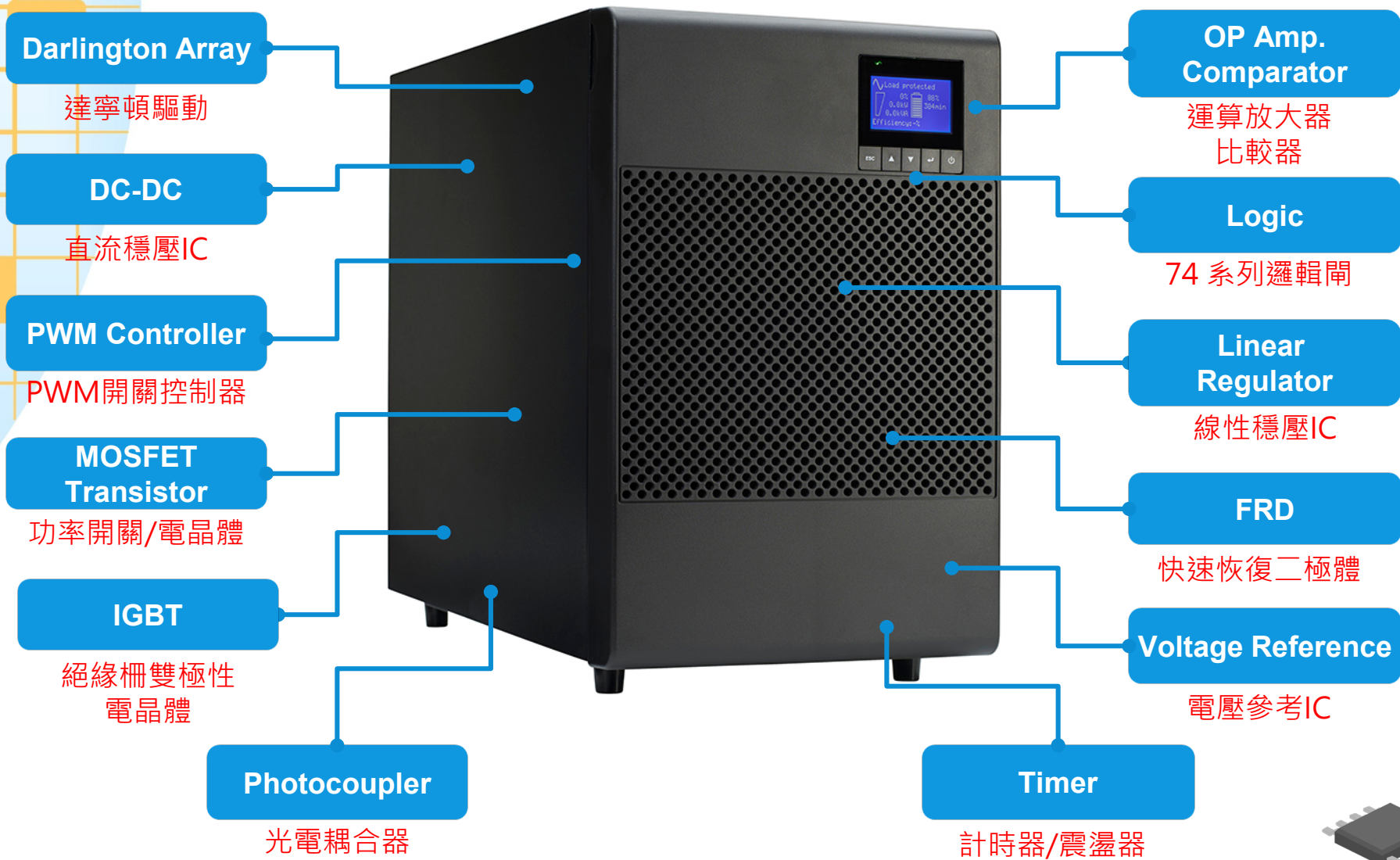
Category	Part No.	Description	Package
DC converter	UD05208	5V 2A 1.5MHz with power saving	SOT-25
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26
Low- I_Q LDO	LR9282	7V 0.3A LDO with EN, $I_Q < 1.5\mu A$	DFN1010-4 SOT-25 SOT-23 SOT-89
Low- I_Q LDO	LR1012	12V 75mA LDO with EN, $I_Q < 3\mu A$	SOT-23 SOT-25 SOT-89
Low- I_Q LDO	UR56xx	18V 0.5A LDO, $I_Q < 3\mu A$	SOT-25 SOT-89 TO-92
Shunt voltage reference	ULVH431	431 ref. $I_{K(min)} < 100\mu A$, $I_{K(OFF)} < 0.1\mu A$	SOT-23 SOT-25
Volt. detection	UIC811	Reset IC with push-pull output	SOT-23 SOT-143 SOT-343
Volt. detection	UIC812	Reset IC with open-drain output	SOT-23 SOT-25 SOT-143
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
Comparator	ULC831	Micro-power 1.4V push-pull output	SOT-25
Amp. + Comp.	ULV2702	Nano power amp + comparator	SOP-8

UTC Parts in Battery Pack

Category	Part No.	Description	Package
Battery protection	UB242	Li-ion/polymer cell protection	SOT-26
Battery protection	UB24205	Li-ion/polymer cell protection IC with integrated MOSFET	SOP-8
Battery protection	UB209A	Protection with cell-balance	SOP-8 TSSOP-8
Battery protection	UB264A	2~4-series cell 2 nd protection	TSSOP-8
Battery charge	UB6054A	Linear programmable charger IC for Li-ion/polymer cell	SOT-26
Power MOSFET	UT3416	N-ch MOSFET 20V 6.5A	SOT-23 SOT-26 DFN*
Power MOSFET	UT2311	P-ch MOSFET -20V -4A	SOT-23 DFN2020-6
Power MOSFET	UT8205A	Dual N-ch MOSFET 20V 6A	SOT-26 TSSOP-8 SOP-8
Schottky diode	B5817W	Schottky rectifier 20V 1A	SOD-123 SOD-323
TVS array	SOT05C	Dual TVS for ESD protection	SOT-23

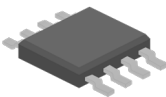
UTC

UPS Solution



Category	Part No.	Description	Package
Darlington Arrays	ULN2003	7 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-16,SOP-16,TSSOP-16
Darlington Arrays	ULN2004	7 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-16,SOP-16
Darlington Arrays	ULN2803	8 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-18,SOP-18,SOP-20 TSOP-20,QFN-20(4x4)
Darlington Arrays	ULN2084	8 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-18,SOP-18

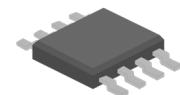
Category	Part No.	Description	Package
Buck Converter	UD18203	4.5~18V _{IN} , 2A, 0.6V _{FB} , 500KHz Freq., COT	SOT-26
Buck Converter	P1484	6.0~18V _{IN} , 3A, 0.923V _{FB} , 365KHz Freq.,	SOP-8
Buck Converter	UD38251	8.0~38V _{IN} , 2.5A, 1.0V _{FB} , 160KHz Freq. UVLO, OVP Function	HSOP-8
Buck Converter	UD38252	8.0~38V _{IN} , 2.5A, 1.0V _{FB} , 160KHz Freq., CC/CV UVLO, OVP Function	HSOP-8
DC-DC	MC34063A	3.0~40V _{CC} , 1.5A I _{SW} , 100Hz~100KHz Freq., Support Buck/Boost/Inverting Topology	DIP-8, SOP-8, TSSOP-8



UTC Parts in UPS

Category	Part No.	Description	Package
Current Mode PWM Controller	UC3842B	10~30V _{CC} , 16V _{THR} , 5V _{REF} , Adj. f _{OSC(MAX.)} =500KHz 0.25mA I _{STR} , 12mA I _{OP} , Duty _(MAX.) =96%, UVLO	DIP-8, SOP-8
Current Mode PWM Controller	UC3843B	7.6~30V _{CC} , 8.4V _{THR} , 5V _{REF} , Adj. f _{OSC(MAX.)} =500KHz 0.25mA I _{STR} , 12mA I _{OP} , Duty _(MAX.) =96%, UVLO	DIP-8, SOP-8
Current Mode PWM Controller	UC3843A	7.6~30V _{CC} , 8.4V _{THR} , 5V _{REF} , Adj. f _{OSC(MAX.)} =500KHz 0.12mA I _{STR} , 11mA I _{OP} , Duty _(MAX.) =97%, UVLO	DIP-8, SOP-8
Current Mode PWM Controller	UC3845	7.6~30V _{CC} , 8.4V _{THR} , 5V _{REF} , Adj. f _{OSC(MAX.)} =500KHz 0.25mA I _{STR} , 12mA I _{OP} , Duty _(MAX.) =48%, UVLO	DIP-8, SOP-8
Flyback Controller	UC3863	9.0~22V _{DD} , 13.5V _{THD} , F _{SW(TYP.)} =65KHz, Power Saving 2.5uA I _{STR} , 1.2mA I _{OP} , Duty _(MAX.) =78%, UVLO, OVP	DIP-8, SOP-8, SOT-26
Voltage Mode PWM Controller	U3525	8.0~35V _{IN} , 5.1V _{REF} , Adj. f _{OSC} =100Hz~400KHz 500mA Sink/Source Current, DT Control, OSC Sync.	DIP-16, SOP-16, SOP16W SOP-16N
Voltage Mode PWM Controller	TL494	7.0~40V _{IN} , 5V _{REF} , Adj. f _{OSC(MAX.)} =300KHz 200mA Sink/Source Current, DT Control	DIP-16, SOP-16, TSSOP-16

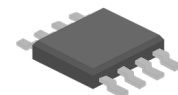
Category	Part No.	Description	Package
Photocoupler	UPC817	35V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UPC816	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UTC10XX	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} 00~10/14/15/18/19 Rank CTR=50~600%	LSOP-4



UTC Parts in UPS

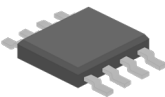
Category	Part No.	Description	Package
OP Amp.	LM358	3~32V _{CC} , Dual Channel, 2~5mV _{OS} , 80dB CMRR, 100dB PSRR	DIP-8, SIP-9, TSSOP-8 SOP-8, MSOP-8, DFN2020-8
OP Amp.	LM324	3~32V _{CC} , Quad. Channel, 5mV _{OS} , 75dB CMRR, 100dB PSRR	DIP-14, SOP-14, TSSOP-14 QFN-16(3x3)
JFET OP Amp.	TL074	±18V _{CC} , ±15V _{IN} Quad. Channel, 3~6mV _{OS} , 86dB CMRR, 86dB PSRR, 5~100pA I _{I(OFF)}	DIP-14, SOP-14
RRO OP Amp.	LV321	2.7~5.5V _{SS} , Single Channel, 1.7~7mV _{OS} , 63dB CMRR, 60dB PSRR	SOT-25, SOT-353
Comparator	LM339	2~36V _{CC} , Quad. Channel, 1.5~3mV _{OS} , 140~400mV _{SAT}	DIP-14, SOP-14, TSSOP-14 QFN-16(3x3)

Category	Part No.	Description	Package
Logic	U74LVC1G08	1.65~5.5V _{CC} , AND GATE	SOT-23-5, SOT-25, SOT-353 DFN1010-6
Logic	U74AHCT00	4.5~5.5V _{CC} , Quad. NAND GATE	SOP-14
Logic	U74HC165	8-Bit Parallel Load Shift Register	SOP-16, TSSOP-16
Logic	UCD4081B	3~15V _{CC} , Quad. AND GATE	DIP-14, SOP-14



UTC Parts in UPS

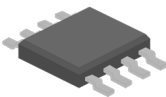
Category	Part No.	Description	Package
Linear Regulator	UZ2085	18V _{IN} , 3A, Adj./fixed Output linear Regulator	TO-252, TO-220, TO-220F TO-263, TO-263-3
Voltage Regulator	78D12A	35V _{IN} , 1A, 12V Fixed Output, 80dB PSRR, 40μVrms eN	TO-251, TO-252 TO-252-3, SOT-223
Voltage Regulator	78T05A	35V _{IN} , 1A, 5.0V Fixed Output, 80dB PSRR	TO-263, TO-263-3
Voltage Regulator	LM7805	35V _{IN} , 1A, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	TO-220, TO-220F TO-262, TO-92
Voltage Regulator	LM7812	35V _{IN} , 1A, 12V Fixed Output, 72dB PSRR, 75μVrms eN	TO-220, TO-220F TO-262, TO-92
Voltage Regulator	LM7815	35V _{IN} , 1A, 15V Fixed Output, 70dB PSRR, 90μVrms eN	TO-220, TO-220F TO-262, TO-92
Voltage Regulator	78L05	30V _{IN} , 0.1A, 5V Fixed Output, 60dB PSRR, 40μVrms eN	SOT-89, SOP-8, SOT-25 TO-92, TO-92NL
Negative Voltage Regulator	79L05	-35V _{IN} , 0.1A, -5V Fixed Output, 71dB PSRR, 120μVrms eN	SOT-89, SOP-8, TO-92
Voltage Regulator	LD1117AG-ADJ	15V _{IN} , 1A, Adj./fixed Output linear Regulator	SOT-223, SOT-89, TO-220 TO-220F, TO-252, TO-252D TO-262, TO-263, TO-263-3 SOT-23-5, SOP-8, HSOP-8 DFN5060-8



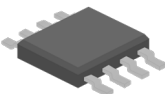
Category	Part No.	Description	Package
Voltage Reference	TL431	$V_{KA}=V_{ref}\sim 36V$, $I_{KA}=1\sim 100mA$, $V_{REF}=2.495V$ $I_{KA(MIN.)}<0.5mA$	SOT-23, SOT-23-3, TSOT-23 SOT-25, SOT-89, SOP-8 TO-92, SIP-3

Category	Part No.	Description	Package
Timer	NE555	$16V_{CC}$, $3mA I_{CC}$, 200mA Driver Capability Astable/Monostable mode	DIP-8, SOP-8

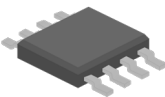
Category	Part No.	Description	Package
Ultra Fast Diode	BYC5	$600V_{RRM}$, $5A I_F$, $2.0\sim 2.9V_F$, $48ns T_{RR}$	TO-220-2, TO-252
Ultra Fast Diode	BYC8	$600V_{RRM}$, $8A I_F$, $2.0\sim 2.9V_F$, $32\sim 40ns T_{RR}$	TO-220-2, TO-252, SMB
Hyper Fast Diode	BYC15	$600V_{RRM}$, $15A I_F$, $2.9V_F$, $117ns T_{RR}$	TO-220-2
Super Fast Diode	UFR15120	$1200V_{RRM}$, $15A I_F$, $3.2V_F$, $130\sim 150ns T_{RR}$	TO-220-2
Super Fast Diode	UFR30120	$1200V_{RRM}$, $30A I_F$, $3.2V_F$, $85ns T_{RR}$	TO-220-2, TO-247-2



Category	Part No.	Description	Package
MOSFET	UT108N03	30V _{DS} , 108A, N-MOSFET, R _{DS(ON)} =4.2~5.3mΩ C _{ISS} =2900pF, Q _G =310nC	TO-220, TO-251, TO-252/D
MOSFET	UT100N03	30V _{DS} , 100A, N-MOSFET, R _{DS(ON)} =3.6~4.6mΩ C _{ISS} =4900pF, Q _G =65C	TO-220, TO-220F, TO-251 TO-252/D, TO-263, DFN5060-8
MOSFET	15N06	60V _{DS} , 15A, N-MOSFET R _{DS(ON)} =75~100mΩ C _{ISS} =700~950pF, Q _G =18~30nC	TO-220, TO-220F, TO-252, SOP-8
MOSFET	UF630	200V _{DS} , 9A, N-MOSFET, R _{DS(ON)} =0.25~0.4Ω C _{ISS} =600pF, Q _G =19~30nC	TO-220, TO-220F/F1/F2, TO-262 TO-263, TO-251, TO-252, SOP-8
MOSFET	UF640	200V _{DS} , 18A, N-MOSFET, R _{DS(ON)} =0.14~0.18Ω C _{ISS} =805pF, Q _G =89~110nC	TO-263, SOT-223, TO-252 TO-220, TO-220F/F1/F2, TO-262
MOSFET	UF740	400V _{DS} , 10A, N-MOSFET, R _{DS(ON)} =0.38~0.55Ω C _{ISS} =1170pF, Q _G =138nC	TO-220, TO-220F/F1/F2 TO-263
MOSFET	3N90	900V _{DS} , 3A, N-MOSFET, R _{DS(ON)} =4.1~4.8Ω C _{ISS} =560pF, Q _G =25.9nC	TO-220, TO-220F/F1/F2 TO-263
MOSFET	4N90	900V _{DS} , 4A, N-MOSFET, R _{DS(ON)} =4.2Ω C _{ISS} =1094pF, Q _G =31nC	TO-220, TO-220F/F1/F2/F3 TO-251, TO-252, TO-3PN
MOSFET	5N60	600V _{DS} , 4A, N-MOSFET, R _{DS(ON)} =1.8~2.2Ω C _{ISS} =515~670pF, Q _G =15~19nC	TO-220, TO-220F/F1/F2/F3 TO-251, TO-252, DFN5060-8
MOSFET	6N90	900V _{DS} , 6.2A, N-MOSFET, R _{DS(ON)} =1.85~2.3Ω C _{ISS} =1260~1770pF, Q _G =40~50nC	TO-220, TO-220F/F1/F4, TO-263 TO262/ST, TO-247, TO-3P
MOSFET	9N90	900V _{DS} , 9A, N-MOSFET, R _{DS(ON)} =1.2Ω C _{ISS} =1870pF, Q _G =215nC	TO-220F1/F2, TO-247 TO-3P/PN/PB

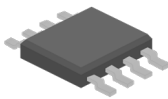


Category	Part No.	Description	Package
Transistor	2SA733L-P	PNP, -50V _{CEO} , -150mA, h _{FE} =200~400	SOT-23, SOT-323, TO-92 TO-92SP
Transistor	2SA1020G-Y	PNP, -50V _{CEO} , -2A, h _{FE} =120~240	SOT-23, SOT-89, TO-92 TO-92NL
Transistor	2SA1012G-R	PNP, -50V _{CEO} , -5A, h _{FE} =180~360	TO-220, TO-220F, TO-251 TO-252
Transistor	MPSA92L	PNP, -300V _{CEO} , -500mA, h _{FE} =80	SOT-89, SOT-252, TO-126 TO-92, TO-92NL
Transistor	HE8050G-D	NPN, 25V _{CEO} , 1.5A, h _{FE} =160~300	SOT-89, SOT-23, TO-92, TO-92NL
Transistor	2SC1815L-GR	NPN, 50V _{CEO} , 150mA, h _{FE} =200~400	TO-92
Transistor	2SC1384L-R	NPN, 50V _{CEO} , 1A, h _{FE} =120~240	SOT-89, TO-92, TO-92NL
Transistor	2SC2655G-Y	NPN, 50V _{CEO} , 2A, h _{FE} =120~240	SOT-23, SOT-89, TO-92NL TO-252
Transistor	2SC2235L-Y	NPN, 120V _{CEO} , 800mA, h _{FE} =120~240	TO-92, TO-92NL
Transistor	2SD1616AL-G	NPN, 120V _{CEO} , 1A, h _{FE} =200~400	SOT-89, SOT-223, SIP-3 TO-92, TO-92SP
Transistor	MMBT5551G-B	NPN, 160V _{CEO} , 600mA, h _{FE} =150~240	SOT-23
Transistor	MMBTA42G	NPN, 300V _{CEO} , 500mA, h _{FE} =80~300	SOT-23



UTC Parts in UPS

Category	Part No.	Description	Package
IGBT	UPG60N60E	600V _{CES} , 120A, N-Channel, V _{CE(SAT)} =2.0~2.5V C _{IES} =1905pF, Q _G =64nC	TO-247S
IGBT	UPG70N60E	600V _{CES} , 140A, N-Channel, V _{CE(SAT)} =1.75~2.2V C _{IES} =2940pF, Q _G =97nC	TO-247S
IGBT	UPG30N120	1200V _{CES} , 60A, N-Channel, V _{CE(SAT)} =2.0~2.8V C _{IES} =1990pF, Q _G =96nC	TO-247



Welding Machine Solution



MOSFET Transistor

功率開關/電晶體

FRD

快速恢復二極體

IGBT

絕緣柵雙極性
電晶體

SCR

矽控整流器

BiMOS OP Amp.*

運算放大器

PWM Controller

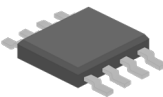
PWM開關控制器

Linear Regulator

線性穩壓IC

Photocoupler

光電耦合器

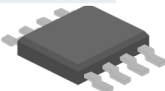


UTC Parts in Welding Machine

Category	Part No.	Description	Package
Current Mode PWM Controller	UC3846	8.0~40V _{IN} , 5.1V _{REF} , Adj. f _{OSC(MAX.)} =500KHz 500mA Sink/Source Current, UVLO, OSC Sync	DIP-16, SOP-16, SOP16W
Voltage Mode PWM Controller	U3525	8.0~35V _{IN} , 5.1V _{REF} , Adj. f _{OSC} =100Hz~400KHz 500mA Sink/Source Current, DT Control, OSC Sync.	DIP-16, SOP-16, SOP16W SOP-16N

Category	Part No.	Description	Package
Photocoupler	UPC817	35V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UPC816	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UTC10XX	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} 00~10/14/15/18/19 Rank CTR=50~600%	LSOP-4

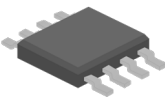
Category	Part No.	Description	Package
Voltage Regulator	LM7805A	35V _{IN} , 1.5A, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	TO-220, TO-220F, TO-220F2
Voltage Regulator	LM7812A	35V _{IN} , 1.5A, 12V Fixed Output, 72dB PSRR, 75μVrms eN	TO-220, TO-220F, TO-220F2
Voltage Regulator	LM7815A	35V _{IN} , 1.5A, 12V Fixed Output, 70dB PSRR, 90μVrms eN	TO-220, TO-220F, TO-220F2
Negative Voltage Regulator	LM7915A	-35V _{IN} , -1.5A, -15V Fixed Output, 60dB PSRR, 250μVrms eN	TO-220, TO-220F



UTC Parts in Welding Machine

Category	Part No.	Description	Package
MOSFET	UF9Z24-F	-55V _{DS} , -12A, P-MOSFET, R _{DS(ON)} =150mΩ C _{ISS} =640pF, Q _G =19.3nC	TO-220, TO-252
MOSFET	UF9530	-100V _{DS} , -14A, P-MOSFET, R _{DS(ON)} =200mΩ C _{ISS} =760pF, Q _G =58nC	TO-220, TO-251, TO-252
MOSFET	UF9640	-200V _{DS} , -11A, P-MOSFET, R _{DS(ON)} =0.5Ω C _{ISS} =1200pF, Q _G =44nC	TO-220, TO-220F, TO-220F4 TO-263, TO-252
MOSFET	UFZ24N-F	55V _{DS} , 17A, N-MOSFET, R _{DS(ON)} =43mΩ C _{ISS} =710pF, Q _G =26.5nC	TO-220, TO-252
MOSFET	UF640	200V _{DS} , 18A, N-MOSFET, R _{DS(ON)} =0.14~0.18Ω C _{ISS} =805pF, Q _G =89~110nC	TO-263, SOT-223, TO-252 TO-220, TO-220F/F1/F2, TO-262
MOSFET	4N150	1500V _{DS} , 4A, N-MOSFET, R _{DS(ON)} =6.5Ω C _{ISS} =1310pF, Q _G =40nC	TO-3PB, TO-220
MOSFET	UTT10NP06	±60V _{DS} , ±10A, N & P-Channel MOSFET N-Ch: R _{DS(ON)} =56~64mΩ, P-Ch: R _{DS(ON)} =68~88mΩ	TO-220-5, TO-252-4, SOP-8 DFN5060-8

Category	Part No.	Description	Package
IGBT	UPG25N120	1200V _{CES} , 50A, N-Channel, V _{CE(SAT)} =2.3~2.8V C _{IES} =1557pF, Q _G =89.3nC	TO-247
IGBT	UPG40N120	1200V _{CES} , 80A, N-Channel, V _{CE(SAT)} =1.9~2.7V C _{IES} =2900pF, Q _G =169nC	TO-247, TO-247S

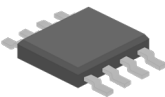


UTC Parts in Welding Machine

Category	Part No.	Description	Package
Ultra Fast Diode	UA60UP30	300V _{RRM} , 30A I _F , 1.5V _F , 55ns T _{RR}	TO-3P, TO-3PB, TO-247S
Ultra Fast Diode	UFR8040C	400V _{RRM} , 80A I _F , 1.3~1.8V _F , 40ns T _{RR}	TO-220-2, TO-247, TO-3P

Category	Part No.	Description	Package
SCR	MCR100	200/400/600V _{RRM} , 0.8A I _{T(RMS)} , I _{GT} =30~100μA V _{GT} =0.62~0.8V, I _H =0.5~5mA, I _L =0.6~10mA	SOT-23, SOT-223, SOT-89, TO-92

Category	Part No.	Description	Package
Transistor	8050S	20V _{CEO} , 700mA, NPN, h _{FE} =120~400	SOT-23, TO-92
Transistor	8550S	-20V _{CEO} , -700mA, PNP, h _{FE} =120~400	SOT-23, TO-92



LDO Regulator -Ultra Low Dropout -Linear Regulator

超低壓差穩壓器
L11831
線性穩壓器
78D05

Reset

電壓偵測IC
UWD817, 81N33, 82N31

Logic

U74系列邏輯閘
U74LVC1G74, U74LVC1G08,
U74LVC1G132, U74HC238,
U74AHC1G09, U74AHCT125

FAN Driver

風扇控制
F2961

LV MOS -SGT MOS -Trench MOS

低壓200V以下MOS
分離式閘極技術/溝槽式
(SGT MOS $R_{DS(ON)}$ =
1.95m Ω ~21m Ω)

Operational Amplifier

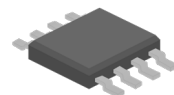
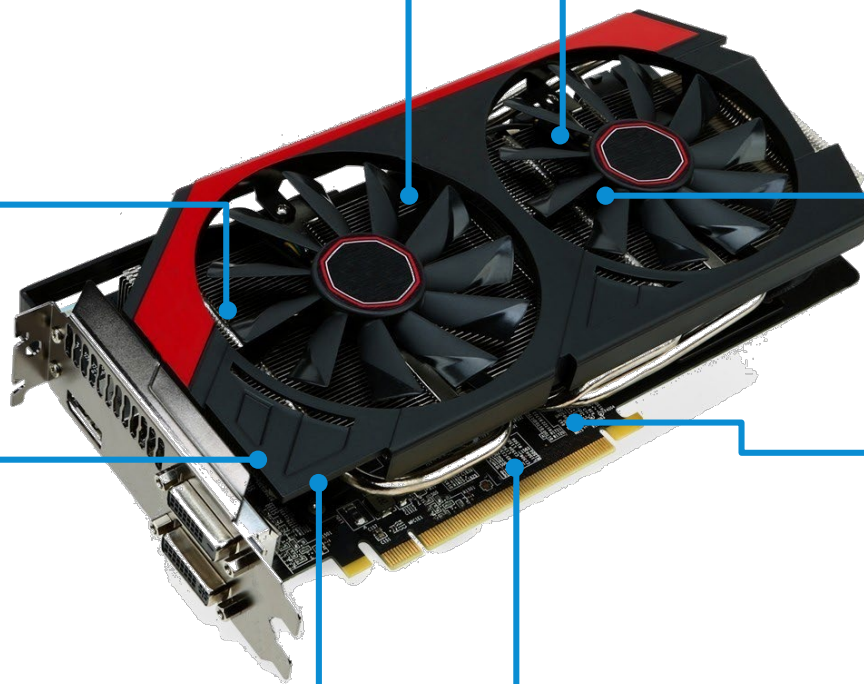
運算放大器
ULV335, ULV8551, OP07C

Diode -Small Signal Schottky -Switching Diode

小信號蕭特基二極體
BAT54
小訊號開關二極體
BAV99

Voltage Comparator

比較器
TS391, LMV7239



Category	Part No.	Description	Package
LV MOS	USG170N03	N-CH SGT MOS, VDSS=30V, ID=85A, RDS(ON) <2.64m ohm	DFN5060-8
LV MOS	USG100N04	N-CH SGT MOS, VDSS=40V, ID=100A, RDS(ON) <1.95m ohm	DFN5060-8, TO-252
LV MOS	USG50N04	N-CH SGT MOS, VDSS=40V, ID=50A, RDS(ON) <9m ohm	DFN5060-8, DFN3030-8, TO-252
LV MOS	USG60P03	P-CH SGT MOS, VDSS=-30V, ID=-60A, RDS(ON) <10m ohm	DFN3030-8, DFN5060-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	DFN3030-8, DFN5060-8, SOP-8, TO-252
LV MOS	UT3404	N-CH Trench MOS, VDSS=30V, ID=5.8A, RDS(ON) <28m ohm	SOT-23, SOT-26, SOP-8
LV MOS	UT2301	P-CH Trench MOS, VDSS=-20V, ID=-2.8A, RDS(ON) <130m ohm	SOT-23, SOT-23-3, SOT-323
LV MOS	UT2305	P-CH Trench MOS, VDSS=-20V, ID=-4.2A, RDS(ON) <53m ohm	SOT-23, SOT-23-3, SOT-26

UTC SGT MOS :

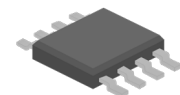
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

UTC P-CH Trench MOS :

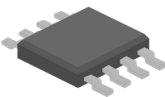
VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



UTC Parts in VGA Card

Category	Part No.	Description	Package
Logic	U74LVC1G74	Single positive-edge-triggered D-type flip-flop , VCC=1.65V~5.5V	SOP-8, CDFN2030-8
Logic	U74LVC1G08	Single 2-input AND gate, VCC=1.65V~5.5V, VCC=1.65V~5.5V	SOT-25, SOT-23-5, SOT-353, DFN1010-6
Logic	U74LVC1G132	Single 2-input NAND gate with Schmitt-trigger, VCC=1.65V~5.5V	SOT-23-5, SOT-353
Logic	U74AHC1G09	Single 2-input AND gate with open-drain output, VCC=2V~5.5V	SOT-25, SOT-23-5, SOT-353
Logic	U74HC238	3 TO 8 Line Decoder/Demultiplexer, VCC=2V~6V	TSSOP-16
Logic	U74AHCT125	Quadruple bus buffer gates with 3-state output, VCC=4.5V~5.5V	SOP-14, TSSOP-14

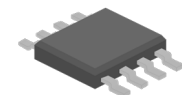
Category	Part No.	Description	Package
FAN Driver	F2961	Single phase PWM Driver motor driver IC, VCC=4.5V~16V, 1A output transistor built in,	TSSOP-16, SSOP-16 HTSSOP-14, DFN4030-14



Category	Part No.	Description	Package
Comparator	LMV7239	Single Rail-to-Rail Input Comparator with Push-pull Output, VCC=2.7V~5.5V, VIO<6mV	SOT-25
Comparator	TS391	Single Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<5mV	SOT-25, SOT-353

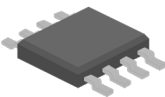
Category	Part No.	Description	Package
OP	ULV335	Zero-Drift, Single Operational Amplifier, Rail-to-Rail Output , VCC=2.7V~5.5V, IQ<600uA, VIO<20uV, SR=1.6V/uS, BW=2MHz	SOP-8
OP	ULV8551	Zero-Drift, Single Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.7V~5V, IQ<1mA, VIO<20uV, SR=0.4V/uS, BW=1MHz	SOT-25, SOP-8
OP	OP07C	Very Low Offset Voltage, Single Operational Amplifier, External offset voltage Adjustment, VCC= $\pm 3V \sim \pm 18V$, IQ<5mA, VIO=60uV, SR=0.3V/uS, BW=0.6MHz	SOP-8

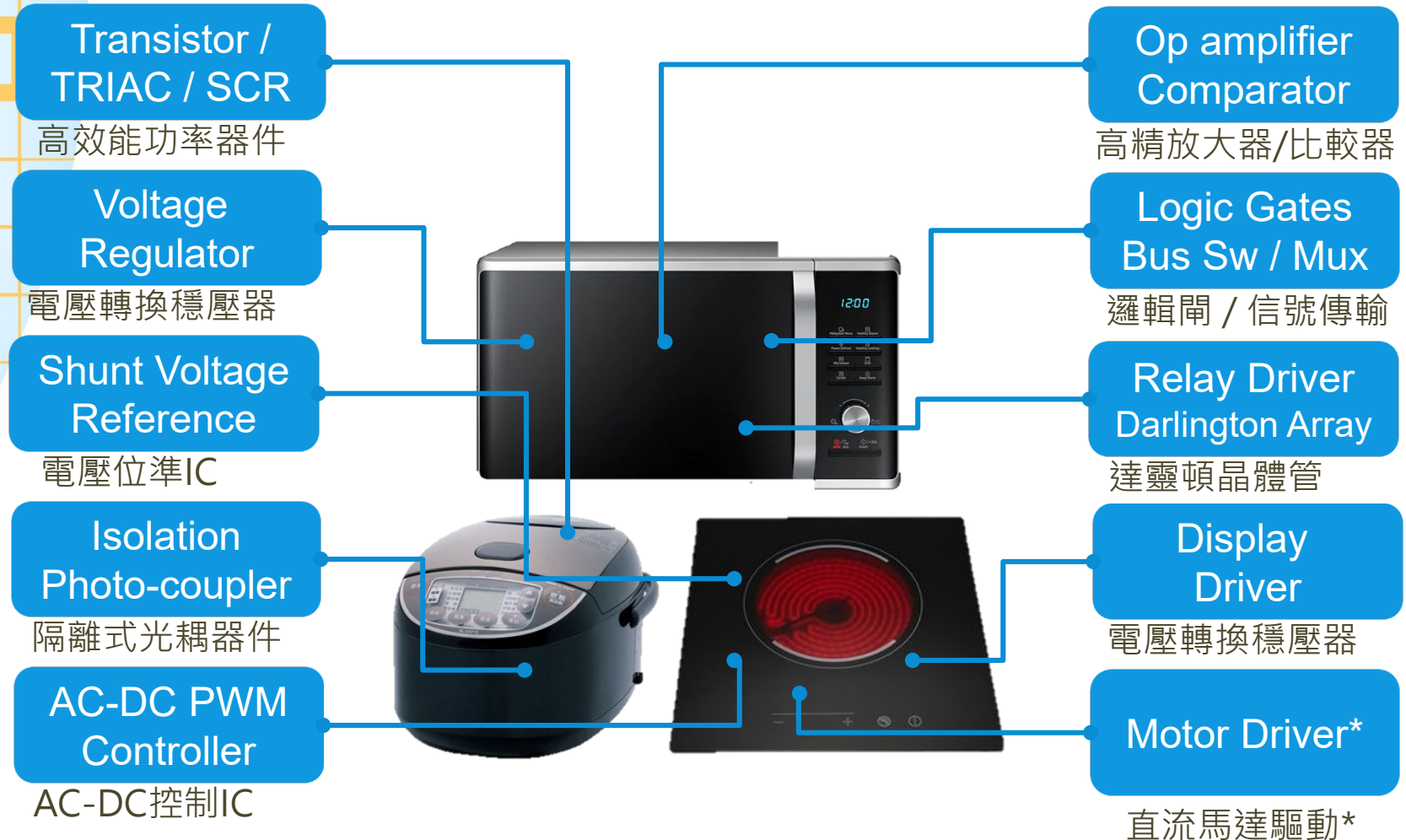
Category	Part No.	Description	Package
LDO	L11831x	Ultra Low Dropout Regulator, Vin=2.5V~5.5V, Vdd=3V~5.5V, Iout=3A, IQ=1.1mA, VD<0.35V	HSOP-8. DFN3030-10
LDO	78D05	Linear Regulator, Vin<35V, Iout=0.5A, IQ<8mA, VD=2V	SOT-223, TO-251, TO-252 TO-252-3, DFN5060-8



Category	Part No.	Description	Package
Reset	UWD817	Push pull Output active Low, with Watch dog & MR , Vin=1V~5.5V, Vth=2.63V 、 2.93V 、 3.08V 、 4V 、 4.4V 、 4.6V, Built in Delay time=140mS~280mS	SOT-25
Reset	81N33	Open Drain Output active Low, Vin=0.7V~10V, Vth=3.3V Built in Delay time=1mS~400mS	SOT-23-3, SOT-23, SOT-89, SOT-323, SOT-223, TO-92
Reset	82N31	Open Drain Output active Low, Vin=0.7V~10V, Vth=3.1V Delay time<0.2mS	SOT-23, SOT-23-3, SOT-25, SOT-89, TO-92

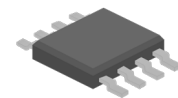
Category	Part No.	Description	Package
Diode	BAT54	Small Signal Schottky, VR=30V, IF=200mA, VF<0.8V	SOT-23
Diode	BAV99	Small Signal Switching Diode, VR=85V, IF=200mA, VF<1.25V	SOT-23, SOT-323, SOT-523, SOT-363





Category	Part No.	Description	Package
TRIAC	BTA316A	3-Q logic / snubberless TRIAC	TO-220F
TRIAC	USS120	700V volt-clamping AC switch	TO-220F
SCR	MCR100	200~600V 1A SCR	SOT-23 SOT-89 SOT-223 TO-92
Opto isolation	UPC817	Photo-coupler CTR 50~600	SMD-4 DIP-4 LSOP-4
Shunt voltage reference	ULVH431	431 ref. $I_{K(min)} < 100\mu A$, $I_{K(OFF)} < 0.1\mu A$	SOT-23 SOT-25
AC-DC power	UCS1654S	PWM controller IC	DIP-7A DIP-8
Regulator	78Lxx	35V 0.1A linear regulator	SOT-89 SOT-223 SOP-8 TO-92
Low- I_Q LDO	UR76xx	36V 0.5A LDO, $I_Q < 3\mu A$	SOT-23 SOT-25 SOT-89 TO-92
CMOS LDO	LR1801	1A fast LDO regulator	SOT-89 SOT-223 TO-252 HSOP-8
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26

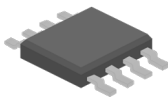
Category	Part No.	Description	Package
Logic gate	U74AHC1G07	1-ch buffer open-drain output	SOT-25 SOT-353
Multiplexer	4052	4-ch analog multiplexer	DIP-16 SOP-16 TSSOP-16
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
Comparator	ULC831	Micro-power push-pull output	SOT-25
Amp. + Comp.	ULV2702	Nano power amp + comparator	SOP-8
Driver array	ULD2003	7-ch DMOS array sink-driver	SOP-16
Driver array	ULN2003	7-ch Darlington array driver	SOP-16 TSSOP-16 DIP-16
Driver array	ULN2018	Driver circuit for microwave oven	SOP-16
Driver array	ULN2020	Driver circuit for microwave oven	SOP-16
Display	UL318	10-digit LED ctrl. with keyscan	SOP-28
Display	UL319	16-digit LED ctrl. with keyscan	QFP-44



UTC Parts in TV/Monitor

Category	Part No.	Description	Package
LV Buck Converter	UD05123	2.5~5.5V _{IN} , 1.2A, 0.6V _{FB} , 2.25MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05151	3.0~5.5V _{IN} , 1.5A, 0.6V _{FB} , 1.5MHz Freq., 1.5ms T _{SS}	SOT-25
LV Buck Converter	UD05205	2.5~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., LS Discharge	SOT-25
LV Buck Converter	UD05208	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05209	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 250us T _{SS}	SOT-25
MV Buck Converter	UD16203	4.5~16V _{IN} , 2A, 0.6V _{FB} , 1.2MHz Freq., COT	SOT-26
MV Buck Converter	UD18203	4.5~18V _{IN} , 2A, 0.6V _{FB} , 500KHz Freq., COT	SOT-26

Category	Part No.	Description	Package
Power Switch	US107A/B/C	3.0~5.5V _{IN} , 2.2/1.7/1.2A I _{LIMIT} , Current Fold-Back, UVLO, OC Flag, Output Reverse Protection	SOT-25
Power Switch	US201A/B/C	3.0~5.5V _{IN} , 0.6/1.1/1.3/1.5A I _{LIMIT} , Current Fold-Back, UVLO, OC Flag	SOT-25
Power Switch	US211A/B/C	3.0~5.5V _{IN} , 0.6/1.0/1.3/1.5A I _{LIMIT} , Current Fold-Back, UVLO, OC Flag	SOT-25



UTC Parts in TV/Monitor

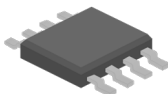
Category	Part No.	Description	Package
Linear Regulator	LR1108G-12	2.5~7.0V _{IN} , 1A, 1.2V Fixed Output 60dB PSRR, 150μVrms eN, 150uA I _Q	SOT-223, TO-252, SOT-23 SOT-23-5, SOT-25, SOT-89 DFN3030-8
Linear Regulator	LR1108G-33	2.5~7.0V _{IN} , 1A, 3.3V Fixed Output 60dB PSRR, 150μVrms eN, 150uA I _Q	SOT-223, TO-252, SOT-23 SOT-23-5, SOT-25, SOT-89 DFN3030-8
Linear Regulator	L11515AL-33	7.0V _{IN} , 1.5A, 3.3V Fixed Output 70dB PSRR, 30μVrms eN, 45uA I _Q	TO-252, SOT-223, TO-220 TO-263
Low Dropout Regulator	LR18120H	1.4~5.5V _{IN} , 2A, Adj. Output, 0.3V@2A V _{Drop}	SOP-8, HSOP-8
Low Dropout Regulator	LR3965G	6.0V _{IN} , 1.5A, 1.2~5.0V Fixed Output 200uA I _Q , 0.55~1V@1.5A V _{Drop}	TO-263, TO-263-5, TO-252 TO-252-5, SOT-223, SOT-89 SOP-8, TO-252-4
Low Noise Regulator	LR9102G-18	6.0V _{IN} , 300mA, 1.8V Fixed Output, 50uA I _Q 75dB PSRR, 30μVrms eN, EN function	SOT-23-3, SOT-23-5, SOT-353 SOT-25, DFN1616-6, DFN1820-6
Low Noise Regulator	LR9102G-33	6.0V _{IN} , 300mA, 3.3V Fixed Output, 50uA I _Q 75dB PSRR, 30μVrms eN, EN function	SOT-23-3, SOT-23-5, SOT-353 SOT-25, DFN1616-6, DFN1820-6
Voltage Regulator	78D05	35V _{IN} , 500mA, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	SOT-223, TO-251, TO-252 TO-252-3, DFN5060-8
Voltage Regulator	78D12	35V _{IN} , 500mA, 12V Fixed Output, 72dB PSRR, 75μVrms eN	SOT-223, TO-251, TO-252 TO-252-3, DFN5060-8
Voltage Regulator	78D05A	35V _{IN} , 1A, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	SOT-223, TO-251, TO-252 TO-252-3
Voltage Regulator	LD1117AG	15V _{IN} , 1A, Adj./fixed Output linear Regulator	SOT-223, SOT-89, TO-220 TO-220F, TO-252, TO-252D TO-262, TO-263, TO-263-3 SOT-23-5, SOP-8, HSOP-8

UTC Parts in TV/Monitor

Category	Part No.	Description	Package
Voltage Reference	TL431	$V_{KA}=V_{ref}\sim 36V$, $I_{KA}=1\sim 100mA$, $V_{REF}=2.495V$ $I_{KA(MIN.)}<0.5mA$	SOT-23, SOT-23-3, TSOT-23 SOT-25, SOT-89, SOP-8 TO-92, SIP-3

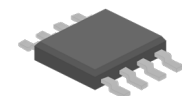
Category	Part No.	Description	Package
Reset IC	88N22	$12V_{DD}$, $2.2V_{DET}\pm 2\%$, Low Active, Open-Drain, $20\sim 42mS$ T_{DELAY} at $C_D=4.7nF$ (t_D Adjustable)	SOT-23-3, SOT-23-5 SOT-25, SOT-143
Reset IC	88N26	$12V_{DD}$, $2.6V_{DET}\pm 2\%$, Low Active, Open-Drain, $12\sim 34mS$ T_{DELAY} at $C_D=4.7nF$ (t_D Adjustable)	SOT-23-3, SOT-23-5 SOT-25, SOT-143
Reset IC	88N27	$12V_{DD}$, $2.7V_{DET}\pm 2\%$, Low Active, Open-Drain, $12\sim 34mS$ T_{DELAY} at $C_D=4.7nF$ (t_D Adjustable)	SOT-23-3, SOT-23-5 SOT-25, SOT-143

Category	Part No.	Description	Package
Transistor	TC200G-Y	NPN, $-45V_{CEO}$, $-500mA$, $h_{FE}=120\sim 240$	TO-92
Transistor	2SC4672G-B	NPN, $50V_{CEO}$, $3A$, $h_{FE}=200\sim 400$	SOT-89
Transistor	2SA1797G-B	PNP, $-50V_{CEO}$, $-2A$, $h_{FE}=200\sim 400$	SOT-89, SOT-223, SOT-252 TO-92NL
Transistor	2SB1132G-R	PNP, $-32V_{CEO}$, $-1A$, $h_{FE}=180\sim 390$	SOT-89, SOT-252, SOT-23 SOT-323



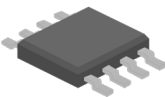
Category	Part No.	Description	Package
Logic	U74LVC1G04	1.65~5.5V _{CC} , INVERTER GATE	SOT-23-5, SOT-25, SOT-353
Logic	U74LVC1G08	1.65~5.5V _{CC} , AND GATE	SOT-23-5, SOT-25, SOT-353 DFN1010-6
Logic	U74LVC125A	1.65~3.6V _{CC} , Quad. BUFFER (with 3-State)	SOP-14, TSSOP-14
Logic	U74LVC2G125	1.65~5.5V _{CC} , Dual BUFFER (with 3-State)	MSOP-8, TSSOP-8
Analog Switch	U74LVC1G3157	1.65~5.5V _{CC} , SPDT Analog Switch	SOT-26, SOT-363
Analog Switch	U74LVC2G66	1.65~5.5V _{CC} , Dual Bilateral Analog Switch	SOP-8, TSSOP-8, MSOP-8 DFN2030-8, CDFN2030-8
Analog Switch	U74LV4052	2.0~10V _{CC} , Dual 4-CH Analog Switch	DIP-16, SOP-16, TSSOP-16

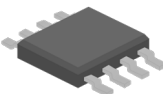
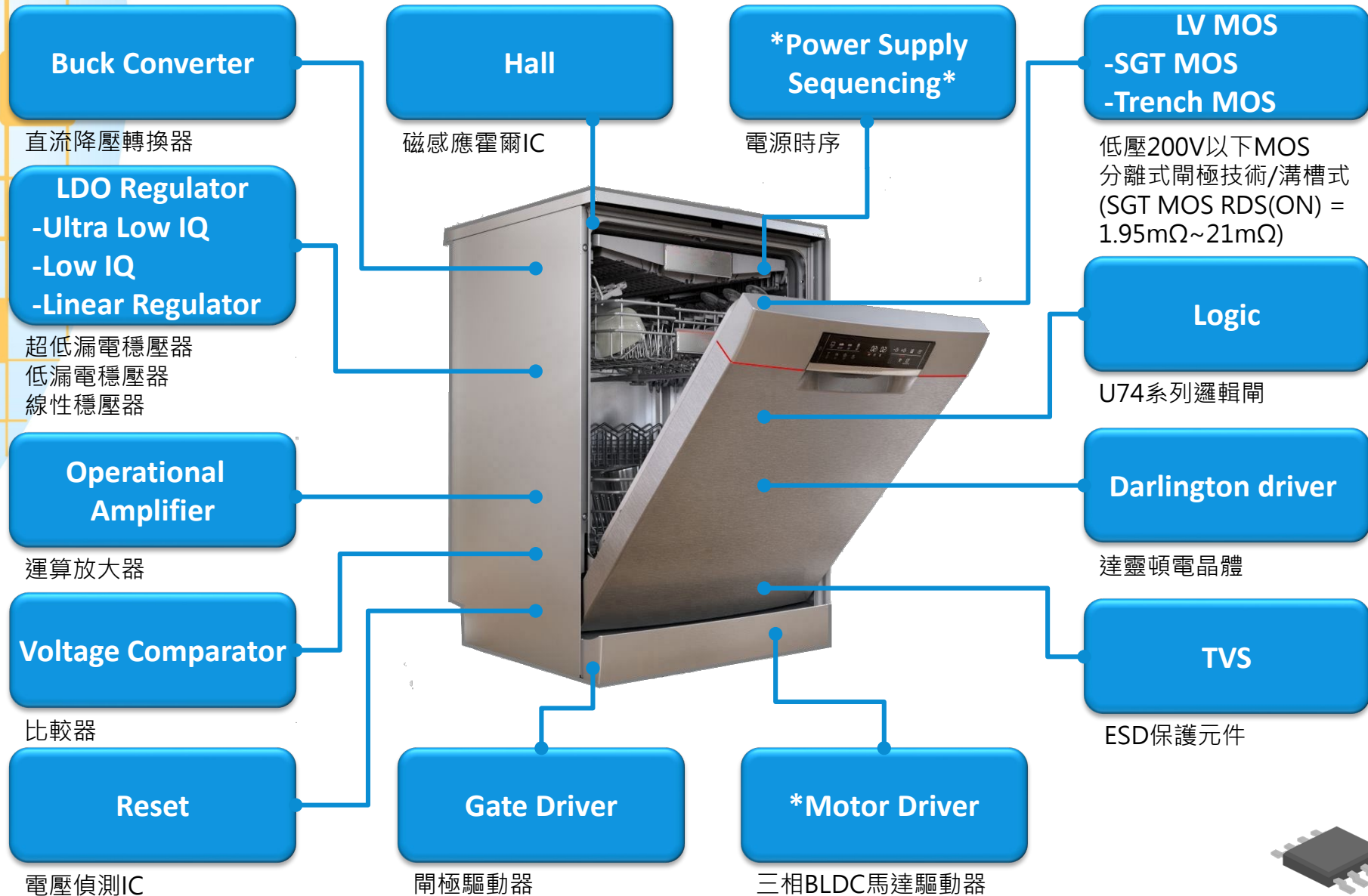
Category	Part No.	Description	Package
Photocoupler	UPC817	35V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UPC816	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UTC10XX	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} 00~10/14/15/18/19 Rank CTR=50~600%	LSOP-4



UTC Parts in TV/Monitor

Category	Part No.	Description	Package
MOSFET	UT2315G-H	-20V _{DS} , -3.3A, P-MOSFET, R _{DS(ON)} =77~85mΩ C _{ISS} =350pF, Q _G =4.8nC	SOT-23-3
MOSFET	UT3415	-20V _{DS} , -4A, P-MOSFET, R _{DS(ON)} =45mΩ C _{ISS} =1660pF, Q _G =85nC	SOT-23
MOSFET	UT4435	-30V _{DS} , -8.8A, P-MOSFET, R _{DS(ON)} =16.5~20mΩ C _{ISS} =2000pF, Q _G =23~26nC	TO-252, SOP-8, DFN3030-8 DFN5060-8
MOSFET	UTT15N10	100V _{DS} , 15A, N-MOSFET, R _{DS(ON)} =110~125mΩ C _{ISS} =920pF, Q _G =20nC	TO-220, TO-251, TO-252
MOSFET	13NM60	600V _{DS} , 13A, SJ N-MOSFET, R _{DS(ON)} =0.45Ω C _{ISS} =760pF, Q _G =28.5nC	TO-220, TO-220F/F1/F2, TO-251 TO-252, TO-262, TO-263 TO-220WF
MOSFET	15NM60L-U2	600V _{DS} , 15A, SJ N-MOSFET, R _{DS(ON)} =0.38Ω C _{ISS} =920pF, Q _G =35nC	TO-220, TO-220F/F1, TO-220WF TO-251, TO-252
MOSFET	18NM60	600V _{DS} , 18A, SJ N-MOSFET, R _{DS(ON)} =0.25~0.3Ω C _{ISS} =1100pF, Q _G =38nC	TO-220, TO-220F/F1/F2, TO-252 TO-263, TO-220WF
MOSFET	7N65KL-MTQ	650V _{DS} , 7A, N-MOSFET, R _{DS(ON)} =1.6Ω C _{ISS} =980pF, Q _G =24.1nC	TO-220, TO-220F/F1/F2/F3 TO-251, TO-252, TO-262, TO-263
MOSFET	9NM65	650V _{DS} , 9A, SJ N-MOSFET, R _{DS(ON)} =0.58Ω C _{ISS} =600pF, Q _G =29nC	TO-220, TO-220F/F1/F2 TO-251, TO-252, TO-263





Category	Part No.	Description	Package
LV MOS	USG170N03	N-CH SGT MOS, VDSS=30V, ID=85A, RDS(ON) <2.64m ohm	DFN5060-8
LV MOS	USG100N04	N-CH SGT MOS, VDSS=40V, ID=100A, RDS(ON) <1.95m ohm	DFN5060-8, TO-252
LV MOS	USG50N06	N-CH SGT MOS, VDSS=60V, ID=50A, RDS(ON) <6.5m ohm	TO-252, DFN5060-8, DFN3030-8
LV MOS	USG80N10	N-CH SGT MOS, VDSS=100V, ID=80A, RDS(ON) <8m ohm	TO-220, TO-220F1, TO-220F2 TO-252, DFN5060-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	DFN3030-8, DFN5060-8, SOP-8, TO-252
LV MOS	UT3404	N-CH Trench MOS, VDSS=30V, ID=5.8A, RDS(ON) <28m ohm	SOT-23, SOT-26, SOP-8
LV MOS	UTT50N06M	N-CH Trench MOS, VDSS=60V, ID=50A, RDS(ON) <12m ohm	TO-220, TO-220F1, TO-251, DFN5060-8, TO-252
LV MOS	UT2305	P-CH Trench MOS, VDSS=-20V, ID=-4.2A, RDS(ON) <53m ohm	SOT-23, SOT-23-3, SOT-26

UTC SGT MOS :

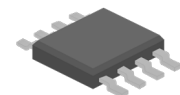
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

UTC P-CH Trench MOS :

VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



UTC Parts in Dishwasher

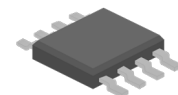
Category	Part No.	Description	Package
LDO	LR9280	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 6V, Iout=0.15A, VD<0.35V~1.2V	SOT-25, SOT-23-5, SOT-23, SOT-23-3, SOT-89, SOT-343, DFN2020-6
LDO	LR9282	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 7V, Iout=0.3A, VD<0.18V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, DFN1010-4
LDO	UR56XX	Ultra Low IQ LDO Regulator, IQ<3~5uA, Vin up to 18V, Iout=0.5A, VD<0.15V~0.24V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, TO-92
LDO	LR9102	Low IQ LDO Regulator, IQ<90uA, Vin up to 6V, Iout=0.3A, VD<0.19V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-353, DFN1616-6, DFN1820-6
LDO	78Lxx	Linear Regulator, Vin<30V, Iout=0.1A, IQ<5.5mA, VD=1.7V	TO-92, TO-92NL, SOP-8, SOT-89, SOT-25, SOT-223

Category	Part No.	Description	Package
DC-DC	UD05123	Buck Converter, Vin=2.5V~5.5V, Iout=1.2A, VFB=0.6V, Fosc=2.25MHz	SOT-25
DC-DC	UD05208	Buck Converter, Vin=2.7V~5.5V, Iout=2A, VFB=0.6V, Fosc=1.5MHz	SOT-25
DC-DC	UD18203	Buck Converter, Vin=4.5V~18V, Iout=2A, VFB=0.6V, Fosc=500KHz	SOT-26

UTC Parts in Dishwasher

Category	Part No.	Description	Package
OP	ULV662	Dual Operational Amplifier, Rail-to-Rail Output , VCC=2.5V~5.5V, IQ<9mA, VIO<1.5mV, SR=32V/uS, BW=50MHz	SOP-8, MSOP-8
OP	LV2622	Dual Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.5V~5.5V, IQ<0.4mA, VIO<3mV, SR=1.7V/uS, BW=3MHz	SOP-8, MSOP-8, TSSOP-8
OP	LM358	Dual Operational Amplifier, VCC=3V~32V, VIO<5mV	MSOP-8, TSSOP-8, SOP-8, DIP-8, SIP-9, DFN2020-8
OP	LM324	Quad Operational Amplifier, VCC=3V~32V, VIO<5mV	DIP-14, SOP-14, TSSOP-14, QFN-16(3*3)

Category	Part No.	Description	Package
Comparator	LM393	Dual Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<5mV	MSOP-8, TSSOP-8, SOP-8, DIP-8, DFN2020-8
Comparator	LM339	Quad Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<3mV	DIP-14, SOP-14, TSSOP-14, QFN-16(3*3)

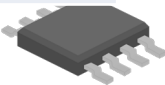


UTC Parts in Dishwasher

Category	Part No.	Description	Package
Darlington driver	ULD2003	7 CH DMOS Transistor Array, Vout=50V, Iout=500mA, I _{leak} <1uA	SOP-16
Darlington driver	ULN2003	7 CH NPN Darlington Array, , Vout=50V, Iout=500mA, I _{leak} <100uA	DIP-16, SOP-16, TSSOP-16

Category	Part No.	Description	Package
Reset	UWD817	Push pull Output active Low , with Watch dog & MR , Vin=1V~5.5V, V _{th} =2.63V 、 2.93V 、 3.08V 、 4V 、 4.4V 、 4.6V, Delay time=140mS~280mS	SOT-25
Reset	UIC811	Push pull Output active Low , with/without MR, Vin=1V~6V, V _{th} =2.63V 、 2.93V 、 3.08V 、 4V 、 4.38V 、 4.63V 、 5V, Delay time=140mS~560mS	SOT-23, SOT-23-3, SOT-143, SOT-343

Category	Part No.	Description	Package
Logic	U74LVC1G3157	Single-pole, Double-throw (SPDT) Analog Switch, VCC=1.65V~5.5V	SOT-26, SOT-363
Logic	UNTS0104	Dual Supply Translating Transceiver, Open Drain, 1.65V to 3.6V on A Port & 2.3 V to 5.5V on B Port	TSSOP-14

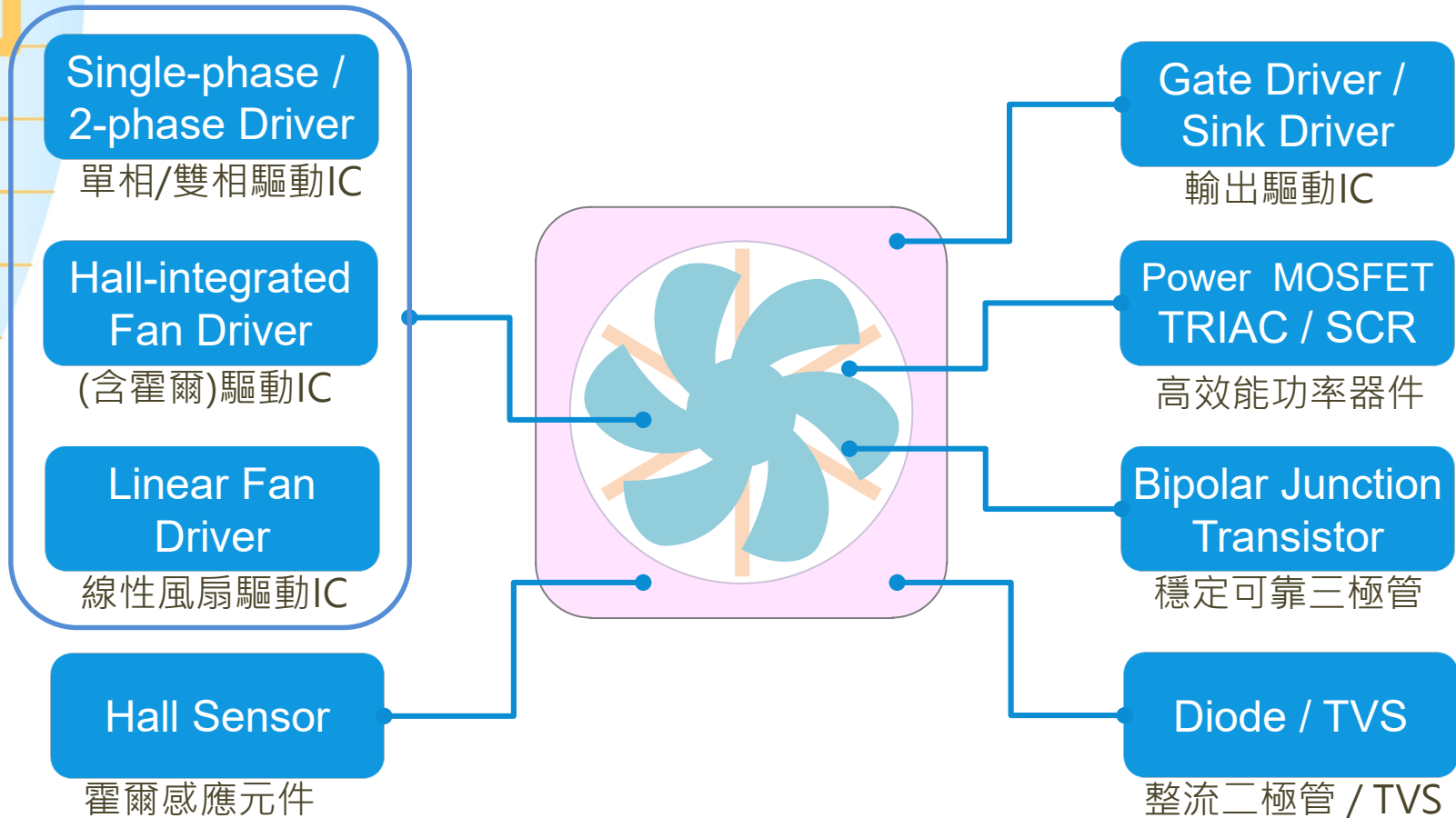


Category	Part No.	Description	Package
Hall	UH81062	Omni-Polar, VDD=2.2V~5.5V, IDD<3.5uA, RANK 1 : Bop=13~23 Gauss, Brp=3~15 Gauss, RANK 2 : Bop<40 Gauss, Brp>5 Gauss, Internal pull-up resistor / NMOS open-drain / CMOS push-pull Output	SIP-3, SOT-23
Hall	UHE4913	Omni-Polar, VDD=2.4V~5.5V, Bop=20~50 Gauss, Brp=12~42 Gauss, NMOS open-drain Output	SIP-3, SOT-23

Category	Part No.	Description	Package
Gate Driver	UTR2101	Half-Bridge Driver, VCC=10V~20V, IQCC<270uA, VS=600V	SOP-8
Gate Driver	UTR2103	Half-Bridge Driver, Internally set dead time VCC=10V~20V, IQCC<270uA, VS=600V	DIP-8

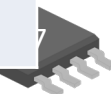
Category	Part No.	Description	Package
TVS	SMCJ	for ESD protection, Uni-directional / Bi-directional, VBR>6.4V~492V, VRWM=5V~440V	SMC
TVS	SRV05-4	Low Capacitance TVS Diode Array, VBR>6V, VRWM=5V, VC<12V, IR<5uA, CJ<1.2pF	SOT-26

UTC Parts in Fan Application



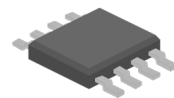
UTC Parts in Fan Application

Category	Part No.	Description	Package
Hall-integrated	UH477	Single-phase fan motor driver (20V)	SIP-4
Hall-integrated	UHC1477*	CMOS-proc. 36V single-phase fan driver	SIP-4
Hall-integrated	UH211	2-phase fan motor driver (20V)	SIP-4
Hall-integrated	UHC211*	CMOS-proc. 20V 2-phase fan driver	SIP-4
Driver	F6908	5V/12V single-phase full-wave driver	SOP-8 HSOP-8 MSOP-8
Driver	F2961	16V 1A PWM speed-controlled single-phase fan driver IC	TSSOP-16 HTSSOP-14 SSOP-16 DFN4030-14
Pre-driver	F2967	PWM speed-controlled single-phase fan pre-driver IC (48V compatible)	TSSOP-20 SSOP-20
Pre-driver	UA9406	2-phase DC fan pre-driver IC (4~28V)	SOP-8 MSOP-8
Pre-driver	UM2640	2-phase DC fan pre-driver IC (4~55V)	SOP-8 MSOP-8
Linear Driver	LR18115	1.6x-voltage linear DC-fan driver	SOP-8
Hall IC	SK1816	Hall sensor latch (open-collector output)	SOT-23 SIP-3
Hall IC	SK1816A	Hall sensor latch (int' pull-high output)	SOT-23 SIP-3



Category	Part No.	Description	Package
Gate Driver	UTR2304*	600V half-bridge gate driver	SOP-8
Power MOSFET	18N25	N-ch MOSFET 250V 18A	TO-251 TO-252 TO-220/F
Power MOSFET	17P10	P-ch MOSFET -100V -17A	TO-251 TO-252 TO-220/F
Power MOSFET	UT4450	N-ch MOSFET 40V 7A	SOT-23 SOT-223 SOP-8
Power MOSFET	UD4606	N-ch+P-ch 30V/-30V combo	SOP-8 DIP-8
SCR	MCR100	200~600V 1A SCR	SOT-23 SOT-89 SOT-223 TO-92
TRIAC	BTA16	16A TRIAC	TO-220F
Bipolar Transistor	2SD669	NPN 120V 1.5A transistor	SOT-23 TO-92 TO-126 TO-251
Bipolar Transistor	2SB649	PNP -120V -1.5A transistor	SOT-89 TO-92 TO-126 TO-252
Rectifier Diode	US1M	1000V 1A ultrafast FRED	SMA SOD-123F
TVS Diode	SMDJ	3000W (at 10/1000us) TVS	SMC

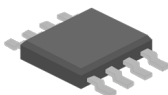
Fire Alarm System Solution



UTC Parts in Fire Alarm System

Category	Part No.	Description	Package
LV Buck Converter	UD05123	2.5~5.5V _{IN} , 1.2A, 0.6V _{FB} , 2.25MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05151	3.0~5.5V _{IN} , 1.5A, 0.6V _{FB} , 1.5MHz Freq., 1.5ms T _{SS}	SOT-25
LV Buck Converter	UD05208	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 50uA I _Q	SOT-25
LV Buck Converter	UD05209	2.7~5.5V _{IN} , 2A, 0.6V _{FB} , 1.5MHz Freq., 250us T _{SS}	SOT-25
MV Buck Converter	UD16203	4.5~16V _{IN} , 2A, 0.6V _{FB} , 1.2MHz Freq., COT	SOT-26
MV Buck Converter	UD18203	4.5~18V _{IN} , 2A, 0.6V _{FB} , 500KHz Freq., COT	SOT-26
HV Buck Converter	P3596L-ADJ	4.5~35V _{CC} , 3A, 1.23V _{FB} , 150KHz Freq.,	TO-220B, TO-220-5, TO-263-5
DC-DC Converter	MC34063A	3.0~40V _{CC} , 1.5A I _{SW} , 100Hz~100KHz Freq., Support Buck/Boost/Inverting Topology	DIP-8, SOP-8, TSSOP-8

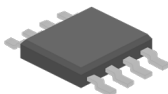
Category	Part No.	Description	Package
Voltage Reference	TL431	V _{KA} =V _{ref} ~36V, I _{KA} =1~100mA, V _{REF} =2.495V I _{KA(MIN.)} <0.5mA	SOT-23, SOT-23-3, TSOT-23 SOT-25, SOT-89, SOP-8 TO-92, SIP-3



UTC Parts in Fire Alarm System

Category	Part No.	Description	Package
Low I _Q LDO	UR75XX	36V _{IN} , 70~150mA, 1.5~12V _{OUT} , Low I _Q (1.0~3.0uA)	SOT-89, SOT-23-3 SOT-23, SOT-23-5, TO-92
Voltage Regulator	78D05	35V _{IN} , 500mA, 5.0V Fixed Output, 80dB PSRR, 40μVrms eN	SOT-223, TO-251, TO-252 TO-252-3, DFN5060-8
Voltage Regulator	78T12A	35V _{IN} , 1A, 12V Fixed Output, 72dB PSRR	TO-263, TO-263-3
Voltage Regulator	LD1117AG	15V _{IN} , 1A, Adj./fixed Output linear Regulator	SOT-223, SOT-89, TO-220 TO-220F, TO-252, TO-252D TO-262, TO-263, TO-263-3 SOT-23-5, SOP-8, HSOP-8 DFN5060-8

Category	Part No.	Description	Package
Darlington Arrays	ULN2003	7 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-16, SOP-16, TSSOP-16
Darlington Arrays	ULN2004	7 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-16, SOP-16
Darlington Arrays	ULN2803	8 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-18, SOP-18, SOP-20 TSOP-20, QFN-20(4x4)
Darlington Arrays	ULN2084	8 Channel, 30V _{IN} , 50V _{OUT} , 500mA, Darlington	DIP-18, SOP-18



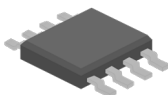
UTC Parts in Fire Alarm System

Category	Part No.	Description	Package
Current Mode PWM Controller	UC3843A	7.6~30V _{CC} , 8.4V _{THR} , 5V _{REF} , Adj. f _{OSC(MAX.)} =500KHz 0.12mA I _{STR} , 11mA I _{OP} , Duty _(MAX.) =97%, UVLO	DIP-8, SOP-8

Category	Part No.	Description	Package
Analog Switch	4051	3.0~18V _{CC} , 8CH Analog Switch	DIP-16, SOP-16, TSSOP-16

Category	Part No.	Description	Package
SCR	MCR100	200/400/600V _{RRM} , 0.8A I _{T(RMS)} , I _{GT} =30~100uA V _{GT} =0.62~0.8V, I _H =0.5~5mA, I _L =0.6~10mA	SOT-23, SOT-223, SOT-89, TO-92
SCR	2N6027	40V _{RRM} , 0.15A I _{T(RMS)}	SOT-89, TO-92

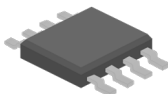
Category	Part No.	Description	Package
Photocoupler	UPC817	35V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UPC816	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} A/B/C/D/X/Y Rank CTR=50~600%	SMD-4, DIP-4, DIP-4M
Photocoupler	UTC10XX	80V _{CEO} , 50mA I _C , 6V _R , 60mA I _F , 5000V _{RMS} V _{ISO} 00~10/14/15/18/19 Rank CTR=50~600%	LSOP-4



UTC Parts in Fire Alarm System

Category	Part No.	Description	Package
Audio Amp.	LM386	4.0~12V _{CC} , 0.7W Gain Setting Audio Amplifier	DIP-8, SOP-8, TSSOP-8
Audio Amp.	TDA1519C	6~17.5V _{CC} , 22W BTL or 2x11W Stereo Class B Audio Amplifier	HSIP-9B
Audio Amp.	TDA7496L	10~18V _{CC} , 2x2W Class AB Audio Amplifier With DC Volume Control	DIP-20, SOP-20, HZIP-15D
Audio Amp.	TDA2030A	±6~±22V _{CC} , 18W HI-FI Class AB Audio Amplifier	TO-220-5, TO-220B, TO-220B1
Audio Amp.	LM1875	16~60V _{CC} , 20W Class AB Audio Amplifier	TO-220-5, TO-220B

Category	Part No.	Description	Package
OP Amp.	LM358	3~32V _{CC} , Dual Channel, 2~5mV _{OS} , 80dB CMRR, 100dB PSRR	DIP-8, SIP-9, TSSOP-8 SOP-8, MSOP-8, DFN2020-8
OP Amp.	MC4558	±22V _{CC} , Dual Channel, 2~6mV _{OS} , 90dB CMRR, 90dB PSRR	DIP-8, SIP-8, SIP-9 SOP-8, TSSOP-8, MSOP-8
Comparator	LM393	2~36V _{CC} , Dual Channel, 1.0~5mV _{OS} , 160~400mV _{SAT}	DIP-8, TSSOP-8, SOP-8 MSOP-8, DFN2020-8



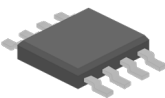
UTC Parts in Fire Alarm System

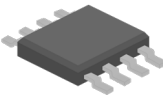
Category	Part No.	Description	Package
MOSFET	UTT6NP10	$\pm 100V_{DS}$, $\pm 6A$, N & P-Channel MOSFET N-Ch: $R_{DS(ON)}=150m\Omega$, P-Ch: $R_{DS(ON)}=155m\Omega$	TO-252-4, SOP-8, DFN5060-8
MOSFET	UT2301	$-20V_{DS}$, $-2.8A$, P-MOSFET, $R_{DS(ON)}=130m\Omega$ $C_{ISS}=630pF$, $Q_G=30.5nC$	SOT-23, SOT-23-3, SOT-323
MOSFET	UT3409	$-30V_{DS}$, $-2.6A$, P-MOSFET, $R_{DS(ON)}=166\sim 200m\Omega$ $C_{ISS}=240pF$, $Q_G=8nC$	SOT-23, SOT-23-3, SOT-323
MOSFET	BSS84Z	$-50V_{DS}$, $-0.13A$, P-MOSFET, $R_{DS(ON)}=10\Omega$ $C_{ISS}=25pF$, $Q_G=2.9nC$ (With ESD Protect)	SOT-23-3
MOSFET	UT3P06	$-60V_{DS}$, $-3A$, P-MOSFET, $R_{DS(ON)}=120\sim 220m\Omega$ $C_{ISS}=450\sim 650pF$, $Q_G=13\sim 18nC$	SOT-23, SOT-223, SOT-26
MOSFET	UTT50P06	$-60V_{DS}$, $-50A$, P-MOSFET, $R_{DS(ON)}=15m\Omega$ $C_{ISS}=7000pF$, $Q_G=170nC$	TO-220, TO-220F, TO-252 TO-262, TO-263
MOSFET	12P10	$-100V_{DS}$, $-9.4A$, P-MOSFET, $R_{DS(ON)}=240\sim 290m\Omega$ $C_{ISS}=500pF$, $Q_G=18nC$	SOT-223, TO-251/S/S2/S4 TO-252/D, TO-220, TO-263 SOP-8
MOSFET	15N06	$60V_{DS}$, $15A$, N-MOSFET, $R_{DS(ON)}=75\sim 100m\Omega$ $C_{ISS}=790\sim 950pF$, $Q_G=18\sim 30nC$	TO-220, TO-220F TO-252, SOP-8
MOSFET	50N06L-F	$60V_{DS}$, $50A$, N-MOSFET, $R_{DS(ON)}=18\sim 23m\Omega$ $C_{ISS}=900\sim 1200pF$, $Q_G=60\sim 80nC$	TO-220, TO-251, TO-252, TO-263
MOSFET	UTT50N06	$60V_{DS}$, $50A$, N-MOSFET, $R_{DS(ON)}=20m\Omega$ $C_{ISS}=1256pF$, $Q_G=40nC$	TO-220, TO-220F/F1, TO-263 TO-251, TO-252/D, DFN5060-8
MOSFET	15N10	$100V_{DS}$, $14.7A$, N-MOSFET, $R_{DS(ON)}=100m\Omega$ $C_{ISS}=760pF$, $Q_G=34nC$	TO-220, TO-251, TO-252
MOSFET	UTT30N10	$100V_{DS}$, $30A$, N-MOSFET, $R_{DS(ON)}=52m\Omega$ $C_{ISS}=2200pF$, $Q_G=43nC$	TO-220, TO-220F, TO-251 TO-252, TO-263, SOP-8 DFN5060-8

UTC Parts in Fire Alarm System

Category	Part No.	Description	Package
MOSFET	2N80	800V _{DS} , 2.4A, N-MOSFET, R _{DS(ON)} =4.8~6.3Ω C _{ISS} =550~650pF, Q _G =18~28nC	TO-220, TO-220F/F1/F2 TO-251, TO-252, TO-252D
MOSFET	8N80	800V _{DS} , 8A, N-MOSFET, R _{DS(ON)} =1.18~1.45Ω C _{ISS} =1580~2050pF, Q _G =47~60nC	TO-220, TO-220F/F1/F2/F4 TO-263

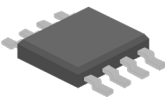
Category	Part No.	Description	Package
Transistor	2SB772L-P	PNP, -30V _{CEO} , -3A, h _{FE} =160~320	TO-126, TO-126C, TO-92NL TO-251, TO-252
Transistor	TIP42CL-C	PNP, -100V _{CEO} , -6A, h _{FE} =45~75	TO-220, TO-220F, TO-252 TO-263
Transistor	2SD1804L-S	NPN, 50V _{CEO} , 8A, h _{FE} =140~280	TO-220, TO-251, TO-252
Transistor	2SD1816L-R	NPN, 100V _{CEO} , 4A, h _{FE} =100~200	TO-251, TO-251S, TO-252 TO-220F, TO-220F1
Transistor	TIP41CL-C	NPN, 100V _{CEO} , 6A, h _{FE} =45~75	TO-220, TO-220F, TO-252
Transistor	2SC2881G-Y	NPN, 120V _{CEO} , 800mA, h _{FE} =120~240	SOT-89, TO-92
Transistor	2SD669AG-C	NPN, 160V _{CEO} , 1.5A, h _{FE} =100~200	SOT-223, SOT-89, TO-252 SOT-23, TO-251, TO-92/NL TO126/C/S
Transistor	2SC5027L-O	NPN, 750V _{CEO} , 3A, h _{FE} =20~40	TO-220, TO-220F





Category	Part No.	Description	Package
LDO	LR9282	Ultra Low IQ LDO Regulator, IQ<1.5uA, Vin up to 7V, Iout=0.3A, VD<0.18V~1.0V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, DFN1010-4
LDO	UR56XX	Ultra Low IQ LDO Regulator, IQ<3~5uA, Vin up to 18V, Iout=0.5A, VD<0.15V~0.24V	SOT-23-3, SOT-23-5, SOT-25, SOT-89, TO-92

Category	Part No.	Description	Package
DC-DC	UD05123	Synchronous Buck Converter, Vin=2.5V~5.5V, Iout=1.2A, VFB=0.6V, Fosc=2.25MHz	SOT-25
DC-DC	UC3656	Synchronous Buck Converter, Vin=2.5V~5.5V, Iout=1.0A, VFB=0.6V, Fosc=1.6MHz	SOT-25



Category	Part No.	Description	Package
DC-DC	UC3500	Boost Converter, Vstart=0.8V, Iout=150mA, Vout fix voltage, Fosc=150KHz	SOT-23, SOT-89, SOT-25

Category	Part No.	Description	Package
Transistor	MMBT5551	NPN Transistor, VCBO=180V, VCEO=160V, IC=600mA, VCE(SAT)< 0.2V	SOT-23

Category	Part No.	Description	Package
OP	ULV8551	Zero-Drift, Single Operational Amplifier, RRIO, VCC=2.7V~5V, IQ<1mA, VIO<20uV, SR=0.4V/uS, BW=1MHz	SOT-25, SOP-8
OP	LV2461	Single Operational Amplifier, RRIO, VCC=2.7V~6V, IQ=0.5mA, VIO<2mV, SR=1.6V/uS, BW=5.2MHz	SOT-25

LED Lighting Solution

Isolated LED Driver

隔離式LED驅動

Non-Isolated LED Driver

非隔離式LED驅動

HV Linear LED Driver

高壓線性LED驅動

Current Ripple Remover

電流紋波抑制IC



DC-DC Buck LED Driver

直流降壓LED驅動

DC-DC Buck LED Driver

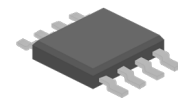
直流升壓LED驅動

Diode Low V_F Schottky

二極體
低順向電壓蕭特基

MOSFET Bridge Diode

功率開關
橋式整流器



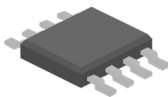
UTC Parts in LED Lighting

Category	Part No.	Description	Package
Isolated Driver	UPSL101	PSR, APFC, External MOSFET, 60W Max. P_{OUT}	SOP-8
Isolated Driver	UCL2310	PSR, APFC, External MOSFET, 50W Max. P_{OUT}	SOP-8
Isolated Driver	UCL5811	PSR, APFC, External MOSFET, 120W Max. P_{OUT}	SOP-8
Isolated Driver	USL3638	PSR, Internal 650V MOSFET, 7W Max. P_{OUT}	DIP-8, SOP-8

Category	Part No.	Description	Package
Non-Isolated Driver	USL3531	Non-Isolated Buck, Internal 500V MOSFET 12W Max. P_{OUT}	SOP-8
Non-Isolated Driver	USL3532	Non-Isolated Buck, Internal 500V MOSFET 16W Max. P_{OUT}	SOP-8
Non-Isolated Driver	USL3533	Non-Isolated Buck, Internal 500V MOSFET 20W Max. P_{OUT}	SOP-8, DIP-8
Non-Isolated Driver	USL2500	Non-Isolated Buck, Internal 500V MOSFET 11W Max. P_{OUT}	SOP-8
Non-Isolated Driver	USL2502	Non-Isolated Buck, Internal 500V MOSFET 29W Max. P_{OUT}	DIP-8
Non-Isolated Driver	UPSL304	Hi-PF(TM PFC), External MOSFET, 30W Max. P_{OUT}	SOT-26
Non-Isolated Driver	UL83B	Hi-PF(APFC), HV Start, Internal 550V MOSFET 15W Max. P_{OUT}	SOP-8

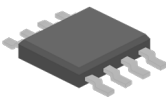
UTC Parts in LED Lighting

Category	Part No.	Description	Package
Linear Driver	UL52A/B/C	Hi-PF, Internal 250V/450V MOSFET 60mA/60mA/100mA $I_{OUT(MAX.)}$ 9W/12W/18W Max. P_{OUT}	HSOP-8
Linear Driver	UL66A/B/C/D	Internal 500V MOSFET 30mA/40mA/60mA/100mA $I_{OUT(MAX.)}$ 8W/12W/18W/23W Max. P_{OUT}	SOT-223, SOT-89, TO-252
Linear Driver	UL66X	External MOSFET, 60W Max. P_{OUT}	SOT-25
Linear Driver	UL68A/B/C/D	Internal 450V MOSFET, V_{OVC} at 70V 30mA/40mA/60mA/100mA $I_{OUT(MAX.)}$ 8W/12W/18W/23W Max. P_{OUT}	SOT-223, SOT-89, TO-252
Linear Driver	UL68X	External MOSFET, V_{OVC} at 70V, 60W Max. P_{OUT}	SOT-25
Linear Driver	UL67A/B/C	Support SCR Dimming, Internal 450V MOSFET 30mA/40mA/60mA $I_{OUT(MAX.)}$ 5W/7W/9W Max. P_{OUT}	HSOP-8
Linear Driver	UL23EA	Support the adjust Brightness in 3 Grades Support the adjust Color Temperature in 3 Grades Internal 500V MOSFET 60mA $I_{OUT(MAX.)}$, 10W Max. P_{OUT}	HSOP-8



UTC Parts in LED Lighting

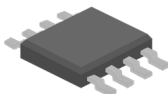
Category	Part No.	Description	Package
Current Ripple Remover	ULD5121	100/120Hz current ripple remover controller External MOSFET	SOT-25
Current Ripple Remover	ULD5131	100/120Hz current ripple remover Internal MOSFET, $I_{OUT(MAX.)}=350mA$	SOP-8
Current Ripple Remover	ULD5133	100/120Hz current ripple remover Internal MOSFET, $I_{OUT(MAX.)}=150mA$	SOT-89, SOT-23



UTC Parts in LED Lighting

Category	Part No.	Description	Package
Buck LED Driver	L3060	5.0~30V _{IN} , 500mA, Buck LED Driver, 1MHz Freq. with Dimming Function	SOT-25
Buck LED Driver	L3080	5.0~30V _{IN} , 800mA, Buck LED Driver, 1MHz Freq. with Dimming Function	SOT-89-5
Buck LED Driver	L3010	4.5~40V _{IN} , 1A, Buck LED Driver, 280KHz Freq.	SOP-8
Buck LED Driver	L3012	6.0~36V _{IN} , 1A, Buck LED Driver, 280KHz Freq. with Dimming Function	SOP-8
Buck LED Driver	L4120	6.0~40V _{IN} , 1.2A, Buck LED Driver, 1MHz Freq. with Dimming Function	SOT-89-5

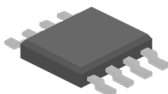
Category	Part No.	Description	Package
Boost LED Driver	L5104	2.5~5.5V _{IN} , 1.4A I _{SW} , Boost LED Driver, 1MHz Freq. with 33V _{OVP} /PWM Dimming Function	SOT-26
Boost LED Driver	L5107	7~45V _{IN} , External MOSFET, 100KHz~1MHz Adj. Freq. OVP/PWM Dimming Function, 70W Max. P _{OUT}	TSSOP-16
Boost LED Driver	ULC6001	3~6.5V _{IN} , External MOSFET, 500KHz~2.5MHz Programmable Freq. PWM Dimming Function, 60W Max. P _{OUT}	SOP-8



UTC Parts in LED Lighting

Category	Part No.	Description	Package
Bridge Diode	SBS34	$V_R=40V$, $I_F=3A$, $V_F<0.5V$	ABS
Bridge Diode	ABS10	$V_R=1000V$, $I_F=0.8A$, $V_F<0.95V$	ABS
Bridge Diode	MB10SU	$V_R=1000V$, $I_F=1A$, $V_F<1.1V$	ASB, MBS
Bridge Diode	MB10F	$V_R=1000V$, $I_F=1A$, $V_F<1.1V$	MBF
Bridge Diode	ABS28	$V_R=800V$, $I_F=2A$, $V_F<0.95V$	ABS
Bridge Diode	UYBS3010	$V_R=1000V$, $I_F=3A$, $V_F<1V$	YBS

Category	Part No.	Description	Package
Diode	1N4148	High Speed Switching Diode $V_R=100V$, $I_F=200mA$, $V_F=1V$, $T_{RR}=4nS$	SOD-123, SOD-323, SOD-523 SOT-23, SOT-323
Diode	1N4007G	Rectifier, $V_R=1000V$, $I_F=1A$, $V_F=1.1V$	DO-41
Diode	RS1M	Fast Recovery Rectifier $V_R=1000V$, $I_F=1A$, $V_F=1.3V$, $T_{RR}=500nS$	DO-41, SMA
Diode	RS1D	Fast Recovery Rectifier $V_R=200V$, $I_F=1A$, $V_F=1.3V$, $T_{RR}=150nS$	DO-41, SMA



UTC Parts in LED Lighting

Category	Part No.	Description	Package
Low V_F Schottky	MGBR12L45	$V_R=45V$, $I_F=12A$, $V_F < 0.6V$	TO-277
Low V_F Schottky	TGBR10S60	$V_R=60V$, $I_F=10A$, $V_F < 0.5V$	TO-220, TO-220F, TO-252 TO-277
Low V_F Schottky	TGBR5S100	$V_R=100V$, $I_F=5A$, $V_F < 0.6V$	DO-201AD, TO-277, TO-220F1
Low V_F Schottky	MGBR10V100C	$V_R=100V$, $I_F=10A$, $V_F < 0.77V$	TO-220, TO-220F, TO-252
Low V_F Schottky	TGBR30S100C	$V_R=100V$, $I_F=30A$, $V_F < 0.75V$	TO-220, TO-220F, TO-220F1
Low V_F Schottky	MGBR20V200C	$V_R=200V$, $I_F=20A$, $V_F < 0.81V$	TO-220, TO-220F, TO-220F1

UTC TGBR Low V_F Schottky :

@Single

$V_R=40V \sim 200V$, $I_F=3A \sim 30A$, $V_F=0.45V \sim 0.93V$

@Dual

$V_R=45V \sim 150V$, $I_F=10A \sim 40A$, $V_F=0.45V \sim 0.89V$

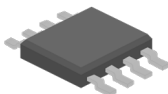
UTC MGBR Low V_F Schottky :

@Single

$V_R=30V \sim 300V$, $I_F=2A \sim 40A$, $V_F=0.43V \sim 0.97V$

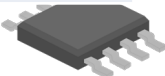
@Dual

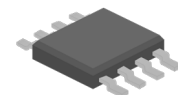
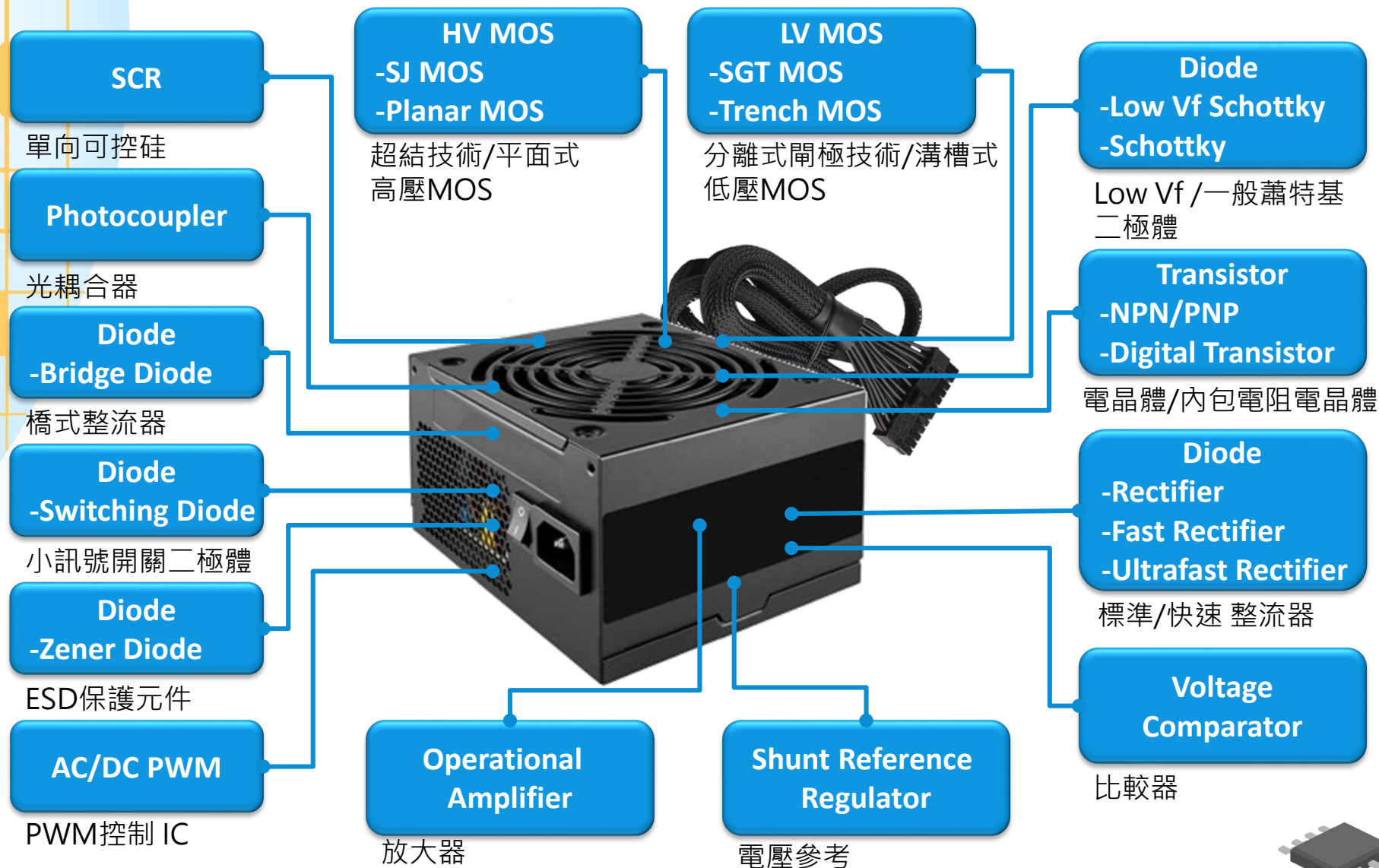
$V_R=30V \sim 300V$, $I_F=6A \sim 60A$, $V_F=0.4V \sim 0.99V$



UTC Parts in LED Lighting

Category	Part No.	Description	Package
HV MOSFET	4N65-ML	Planar MOSFET, $V_{DSS}=650V$, $I_D=4A$, $R_{DS(ON)}<2.6\ \Omega$	TO-220, TO-220F/F1/F2 TO-251, TO-252
HV MOSFET	7N65-ML	Planar MOSFET, $V_{DSS}=650V$, $I_D=7A$, $R_{DS(ON)}<1.3\ \Omega$	TO-220, TO-220F/F1/F2 TO-251, TO-252, TO-262 TO-263
HV MOSFET	10N65-ML	Planar MOSFET, $V_{DSS}=650V$, $I_D=10A$, $R_{DS(ON)}<1.0\ \Omega$	TO-220, TO-220F, TO-220F1 TO-220F2
UTC Planar MOSFET : $V_{DSS}=50V\sim 1500V$ $I_D=0.021A\sim 150A$ $R_{DS(ON)}=0.006\Omega\sim 500\ \Omega$			
SJ MOSFET	5NM70-U2	SJ MOSFET, $V_{DSS}=700V$, $I_D=5A$, $R_{DS(ON)}<1.5\Omega$	TO-220, TO-220F/F1/F2 TO-251/S/S2/S4/NS2 TO-252, SOT-223
SJ MOSFET	8NM65	SJ MOSFET, $V_{DSS}=650V$, $I_D=8A$, $R_{DS(ON)}<0.68\Omega$	TO-220, TO-220F/F1/F2/F3 TO-251/NS2, TO-252 TO-262, TO-263
SJ MOSFET	11NM70-U2	SJ MOSFET, $V_{DSS}=700V$, $I_D=11A$, $R_{DS(ON)}<0.6\Omega$	TO-220, TO-220F/F1 TO-251/S/S2, TO-252
UTC SJ MOSFET : $V_{DSS}=500V\sim 950V$ $I_D=0.2A\sim 75A$ $R_{DS(ON)}=0.048\Omega\sim 19.2\ \Omega$			





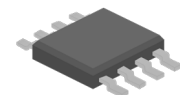
Category	Part No.	Description	Package
HV MOS	13NM50-U2	SJ MOS, VDSS=500V, ID=13A, RDS(ON) <0.4Ω	TO-262, TO-263, TO-220F1, TO-251, TO-252
HV MOS	15NM50-U2	SJ MOS, VDSS=500V, ID=15A, RDS(ON) <0.35Ω	TO-220, TO-220F, TO-220F1, TO-251, TO-262, TO-263, TO-252
HV MOS	15NM60	SJ MOS, VDSS=600V, ID=15A, RDS(ON) <0.35Ω	TO-220, TO-220F, TO-220F1, TO-263, TO-251, TO-252
HV MOS	18NM60	SJ MOS, VDSS=600V, ID=18A, RDS(ON) <0.3Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-247, TO-263, TO-3P
HV MOS	21NM60	SJ MOS, VDSS=600V, ID=21A, RDS(ON) <0.19Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-247, TO-263, TO-3P
HV MOS	24NM65	SJ MOS, VDSS=650V, ID=24A, RDS(ON) <0.16Ω	TO-220, TO-220F, TO-220F1, TO-220F2, TO-262, TO-263 TO-247, TO-247S
HV MOS	30NM65	SJ MOS, VDSS=650V, ID=30A, RDS(ON) <0.14Ω	TO-220, TO-220F1, TO-220F2, TO-247

UTC SJ MOSFET :

VDSS = 500V~950V

ID = 0.2A~75A

RDS(ON) = 0.048Ω~19.2 Ω



Category	Part No.	Description	Package
LV MOS	USG170N03	N-CH SGT MOS, VDSS=30V, ID=85A, RDS(ON) <2.64m ohm	DFN5060-8
LV MOS	USG50N04	N-CH SGT MOS, VDSS=40V, ID=50A, RDS(ON) <9m ohm	DFN5060-8, DFN3030-8, TO-252
LV MOS	USG100N04	N-CH SGT MOS, VDSS=40V, ID=100A, RDS(ON) <1.95m ohm	DFN5060-8, TO-252
LV MOS	USG50N06	N-CH SGT MOS, VDSS=60V, ID=50A, RDS(ON) <6.5m ohm	TO-252, DFN5060-8, DFN3030-8
LV MOS	USG80N06	N-CH SGT MOS, VDSS=60V, ID=80A, RDS(ON) <4.5m ohm	TO-252, DFN5060-8
LV MOS	UTT50N03L	N-CH Trench MOS, VDSS=30V, ID=50A, RDS(ON) <5.5m ohm	TO-252, SOP-8, DFN5060-8, DFN3030-8
LV MOS	UTT50N06M	N-CH Trench MOS, VDSS=60V, ID=50A, RDS(ON) <12m ohm	TO-220, TO-220F1, TO-251, DFN5060-8, TO-252
LV MOS	2N7002	N-CH Trench MOS, VDSS=60V, ID=0.3A, RDS(ON) <2 ohm	SOT-23-3

UTC SGT MOS :

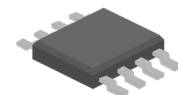
VDSS = 30V~150V, RDS(ON) = 1.95mΩ~21mΩ

UTC N-CH Trench MOS :

VDSS = 12V~200V, ID = 0.1A~220A, RDS(ON) = 2.4mΩ~2400mΩ

UTC P-CH Trench MOS :

VDSS = -12V~-200V, ID = -0.1A~-120A, RDS(ON) = 4.3mΩ~3100mΩ



Category	Part No.	Description	Package
Diode	TGBR30L60C	Low Vf Schottky Diode, VR=60V, IF=30A, VF< 0.6V	TO-220, TO-220F, TO-220F1
Diode	TGBR40V60C	Low Vf Schottky Diode, VR=60V, IF=40A, VF< 0.65V	TO-220, TO-220F, TO-220F1
Diode	SK34	Schottky Diode, VR=40V, IF=30A, VF< 0.5V	SMA, SMB, SMC, SOD-123F, SOD-123S

UTC TGBR Low VF Schottky :

@Single

VR = 40V~200V, IF = 3A~30A, VF = 0.45V~0.93V

@Dual

VR = 45V~150V, IF = 10A~40A, VF = 0.45V~0.89V

UTC MGBR Low VF Schottky :

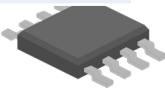
@Single

VR = 30V~300V, IF = 2A~40A, VF = 0.43V~0.97V

@Dual

VR = 30V~300V, IF = 6A~60A, VF = 0.4V~0.99V

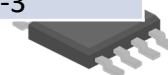
Category	Part No.	Description	Package
Diode	ES3J	Super fast rectifier, VR=600V, IF=3A, VF<1.5V, TRR<50nS	SMB, SMC
Diode	BYC8	Ultra fast rectifier, VR=600V, IF=8A, VF<2.9V, TRR<52nS	TO-220-2, SMB



Category	Part No.	Description	Package
Transistor	2N4401	NPN Transistor, VCBO=60V, VCEO=40V, IC=600mA	TO-92
Transistor	2N4403	PNP Transistor, VCBO=-40V, VCEO=-40V, IC=-600mA	TO-92
Transistor	MMBT4401	NPN Transistor, VCBO=60V, VCEO=40V, IC=600mA	SOT-23, SOT-323
Transistor	MMBT4403	PNP Transistor, VCBO=-40V, VCEO=-40V, IC=-600mA	SOT-23, SOT-323
Transistor	MMBT2907A	PNP Transistor, VCBO=-60V, VCEO=-60V, IC=-600mA	SOT-23, SOT-323
Transistor	MMBT2222A	NPN Transistor, VCBO=75V, VCEO=40V, IC=600mA	SOT-23, SOT-323, SOT-523, DFN1006-3
Transistor	USS4350	NPN Transistor, VCBO=60V, VCEO=50V, IC=3A	SOT-23, SOT-89, SOT-223

Category	Part No.	Description	Package
Digital Transistor	DTC144E	NPN, Built-in bias resistors, VCC=50V, IO=100mA, R1=47KΩ, R2=47KΩ	SOT-23, SOT-323, SOT-523, TO-92, TO-92SP

Category	Part No.	Description	Package
Shunt Reference Regulator	TL431	Adjustable Precision Shunt Regulator, VKA=Vref~36V, IKA=1~100mA, VREF=2.495V, IKA(min) <0.5mA	SOT-23-3, SOT-23, TSOT-23, SOT-25, SOT-89, SOP-8, TO-92, SIP-3



Category	Part No.	Description	Package
Photocoupler	UPC817	Phototransistor Photocoupler, VF< 1.4V, VCEO=35V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4
Photocoupler	UPC816	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	DIP-4, DIP-4M, SMD-4
Photocoupler	UPC10XX	Phototransistor Photocoupler, VF< 1.4V, VCEO=80V, CTR=50%~600%	LSOP-4

Category	Part No.	Description	Package
OP	ULV662	Dual Operational Amplifier, Rail-to-Rail Output , VCC=2.5V~5.5V, IQ<9mA, VIO<1.5mV, SR=32V/uS, BW=50MHz	SOP-8, MSOP-8
OP	LV2622	Dual Operational Amplifier, Rail-to-Rail Input/Output , VCC=2.5V~5.5V, IQ<0.4mA, VIO<3mV, SR=1.7V/uS, BW=3MHz	SOP-8, MSOP-8, TSSOP-8
OP	LM358	Dual Operational Amplifier, VCC=3V~32V, VIO<5mV	MSOP-8, TSSOP-8, SOP-8, DIP-8, SIP-9, DFN2020-8

Category	Part No.	Description	Package
Comparator	LM393	Dual Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<5mV	MSOP-8, TSSOP-8, SOP-8, DIP-8, DFN2020-8
Comparator	LM339	Quad Comparator, VCC=2V~36V or $\pm 1V \sim \pm 18V$, VIO<3mV	DIP-14, SOP-14, TSSOP-14, QFN-16(3*3)

Category	Part No.	Description	Package
SCR	MCR100	VRRM=200V/400V/600V, IT(RMS)=0.8A, VGT<0.8V, IGT=30uA~100uA	SOR-23, SOT-223, SOT-89, TO-92
SCR	BT169D	VRRM=400V, IT(RMS)=0.8A, VGT<0.8V, IGT=25uA~200uA	SOT-223, SOT-89, TO-92

Category	Part No.	Description	Package
PWM	TL594	PWM Controller, Adjustable dead time, VCC=7~40V, fOSC=1~300Khz	SOP-16, DIP-16

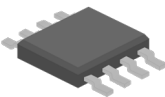
Category	Part No.	Description	Package
Diode	BAT54C	Small Signal Schottky, VR=30V, IF=200mA, VF<0.8V	SOT-23

Category	Part No.	Description	Package
Diode	UMMSZ5242B	Zener Diode, VZ=12V, ZZT<30 ohm, IR<1uA	SOT-23, SOD-123, SOD-323, SOD-523, LL-34
Diode	UMMSZ5245B	Zener Diode, VZ=15V, ZZT<16ohm, IR<0.1uA	SOT-23, SOD-123, SOD-323, SOD-523, LL-34
Diode	UMMSZ5255B	Zener Diode, VZ=28V, ZZT<44 ohm, IR<0.1uA	SOT-23, SOD-123, SOD-323, SOD-523, LL-34

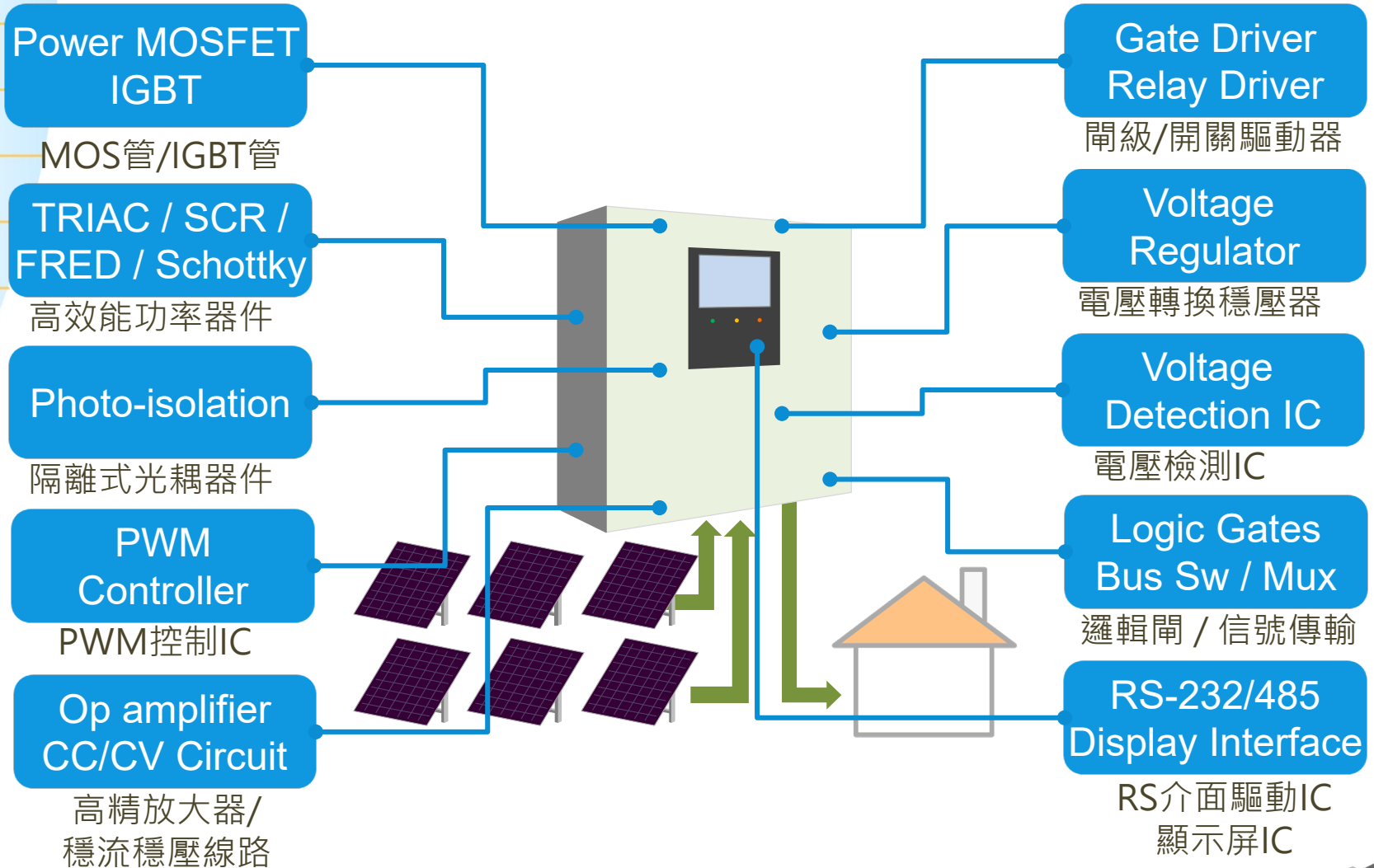


Category	Part No.	Description	Package
Diode	BAS316	High Speed Switching Diode, VR=75V, IF=250mA, VF<0.855V, Trr=4nS	SOD-323
Diode	1N4148	High Speed Switching Diode, VR=100V, IF=200mA, VF<1V, Trr=4nS	SOD-123, SOD-323, SOD-523 SOT-23, SOT-323

Category	Part No.	Description	Package
Diode	1N4007G	Rectifier, VR=1000V, IF=1A, VF=1.1V	DO-41
Diode	RS1M	Fast Recovery Rectifier, VR=1000V, IF=1A, VF=1.3V, Trr=500nS	DO-41, SMA
Diode	RS1D	Fast Recovery Rectifier, VR=200V, IF=1A, VF=1.3V, Trr=150nS	DO-41, SMA



Parts in Solar Inverter



Parts in Solar Inverter

Category	Part No.	Description	Package
PWM IC	UCS1654S	Fly-back controller with MOSFET	DIP-7A DIP-8
Opto isolation	UPC817	Photo-coupler CTR 50~600	SMD-4 DIP-4 LSOP-4
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
CC/CV control	UM611	2 op amps with V _{REF}	SOT-26
Gate Driver	UTR2304*	600V half-bridge gate driver	SOP-8
Gate Driver	UTR2113*	High-side + low-side gate driver	SOP-8
Power MOSFET	20N60K-MT	N-ch MOSFET 600V 20A	TO-220F1/220F2/220F3
Power MOSFET	F5N60	Rugged 600V Trr-optimized	TO-251 TO-252 TO-220/F
Power MOSFET	4P50	P-ch MOSFET -500V -4A	TO-251 TO-252 TO-220/F
Power MOSFET	18N25	N-ch MOSFET 250V 18A	TO-251 TO-252 TO-220/F
Power MOSFET	USG120N10	SGT 100V <4.5mΩ for SR	TO-220 TO-263
Power MOSFET	UT3404	N-ch MOSFET 30V 5.8A	SOT-23 SOT-26 SOP-8
Power MOSFET	UD4606	N-ch+P-ch 30V/-30V combo	SOP-8 DIP-8

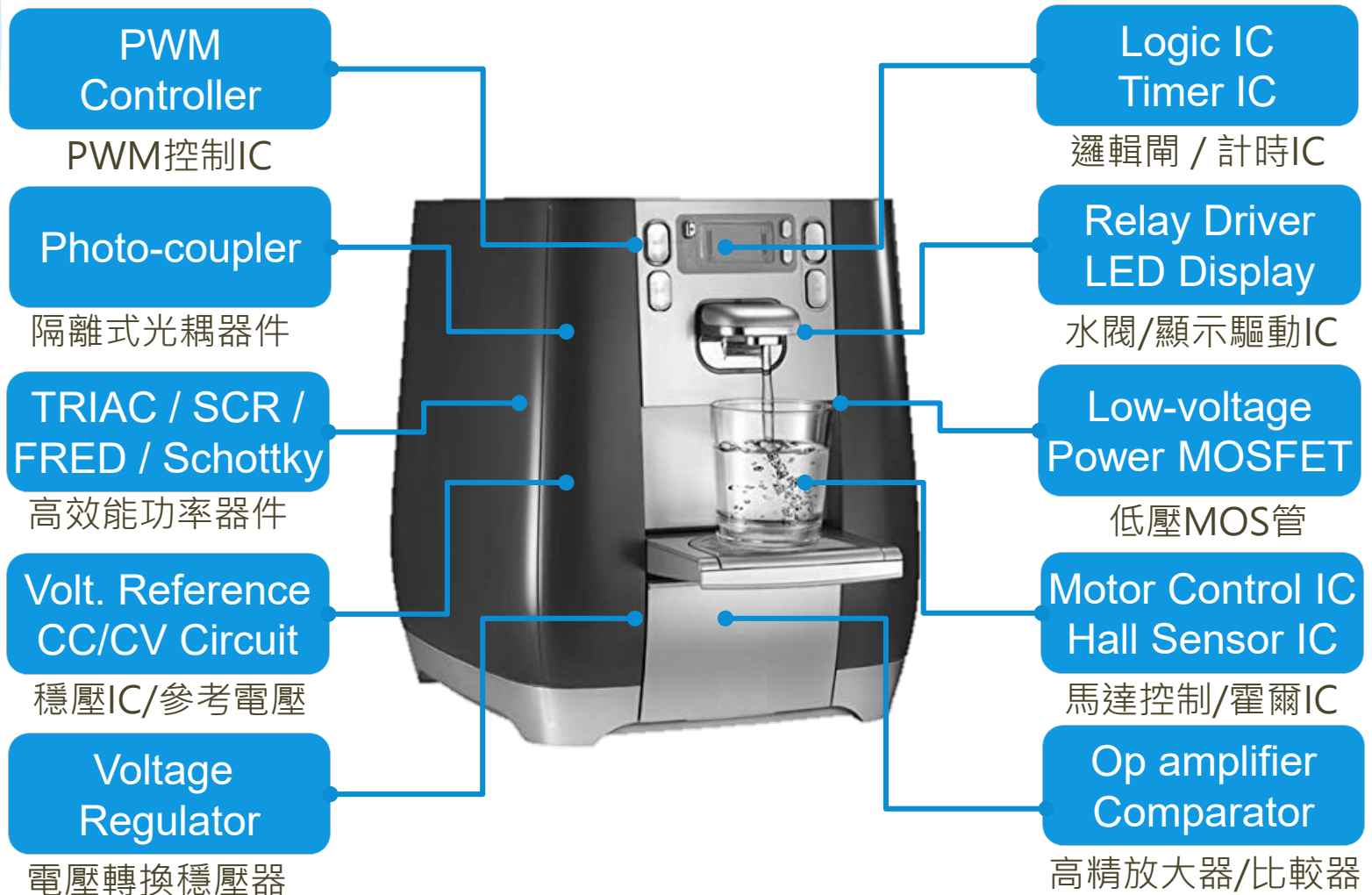
Parts in Solar Inverter

Category	Part No.	Description	Package
IGBT	UPGE50N60	600V 50A IGBT	TO-3PB TO-247S
TRIAC	BTA16	16A TRIAC	TO-220F
TRIAC	USS120	700V volt-clamping AC switch	TO-220F
SCR	MCR100	200~600V 1A SCR	SOT-23 SOT-89 SOT-223
Rectifier Diode	US1M	1000V 1A ultrafast FRED	SMA SOD-123F
TVS Diode	SMDJ	3000W (at 10/1000us) TVS	SMC
Schottky	MBR2060C	Schottky rectifier 60V 20A	TO-252 TO-263 TO-220/F
Schottky	TGBR30L60C	Trench Schottky 60V 30A	TO-220 TO-220F
Regulator	78Dxx	35V 0.5A linear regulator	TO-251 TO-252 SOT-223 DFN5060-8
CMOS LDO	LR1801	1A fast LDO regulator	SOT-89 SOT-223 TO-252 HSOP-8
Low- I_Q LDO	UR76xx	36V 0.5A LDO, $I_Q < 3\mu A$	SOT-23 SOT-25 SOT-89 TO-92

Parts in Solar Inverter

Category	Part No.	Description	Package
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26
DC converter	UD05208	5V 2A 1.5MHz with power saving	SOT-25
Volt. Detect.	UIC812	Reset IC with open-drain output	SOT-23 SOT-25 SOT-143
Logic gate	U74AHC1G08	Single 2-input AND gate	SOT-25 SOT-353
Logic gate	U74AHC3G14	3-inverter with Schmitt trigger	TSSOP-8 MSOP-8
Multiplexer	4052	4-ch analog multiplexer	DIP-16 SOP-16 TSSOP-16
Driver array	ULN2003	7-ch Darlington sinking driver	DIP-16 SOP-16 TSSOP-16
RS-232/485	UT3243	3-driver 5-receiver line driver	QFN-32 SSOP-28 TSSOP-28
RS-232/485	UTRS458	RS-485/422 transceiver (1/8 UL)	SOP-8
Display	UL318	10-digit LED ctrl. with keyscan	SOP-28
Display	UL319	16-digit LED ctrl. with keyscan	QFP-44

Parts in Water Filter



Parts in Water Filter

Category	Part No.	Description	Package
PWM IC	UCS1654S	Fly-back controller w. MOSFET	DIP-7A DIP-8
Opto isolation	UPC817	Photo-coupler CTR 50~600	SMD-4 DIP-4 LSOP-4
CC/CV control	UM611	2 op amps with VREF	SOT-26
TRIAC	BTA04	4A TRIAC	TO-220F
SCR	MCR100	200~600V 1A SCR	SOT-23 SOT-89 SOT-223
Rectifier Diode	US1M	1000V 1A ultrafast FRED	SMA SOD-123F
TVS Diode	SMDJ	3000W (at 10/1000us) TVS	SMC
Schottky	MBR2060C	Schottky rectifier 60V 20A	TO-252 TO-263 TO-220/F
Power MOSFET	USG120N10	SGT 100V <4.5mΩ for SR	TO-220 TO-263
Power MOSFET	UT3404	N-ch MOSFET 30V 5.8A	SOT-23 SOT-26 SOP-8
Power MOSFET	UT70P03	P-ch MOSFET -30V 70A	DFN5060-8 TO-252 TO-251 TO-220 TO-220F
Power MOSFET	UD4606	N-ch+P-ch 30V/-30V combo	SOP-8 DIP-8

Parts in Water Filter

Category	Part No.	Description	Package
DC converter	UD24121	24V 1.2A 1.4MHz step-down	SOT-26
CMOS LDO	LR9103	0.15A low-noise LDO regulator	SOT-25 SOT-343 DFN1010
Regulator	78Lxx	35V 0.1A linear regulator	SOT-25 SOT-89 SOT-223 SOP-8 TO-92
Volt. Detect.	UIC812	Reset IC open-drain output	SOT-23 SOT-25 SOT-143
Volt. Comparator	ULC393	18V low-consump. comparator	SOP-8
Op amplifier	ULV8551	2-ch R2R zero-drift op amp	SOP-8
Logic gate	U74AHC1G08	Single 2-input AND gate	SOT-25 SOT-353
Timer IC	C555	Monostable timing circuit	SOP-8 DIP-8
Multiplexer	4052	4-ch analog multiplexer	DIP-16 SOP-16 TSSOP-16
Driver array	ULN2003	7-ch Darlington sinking driver	DIP-16 SOP-16 TSSOP-16
Display Driver	UL318	10-digit LED ctrl. with keyscan	SOP-28
Motor Control	UMD9137*	H-bridge motor driver	SOP-8 HSOP-8 DFN2020
Hall sensor	SK1816	20V motor / rotation sensing	SOT-23 SIP-3