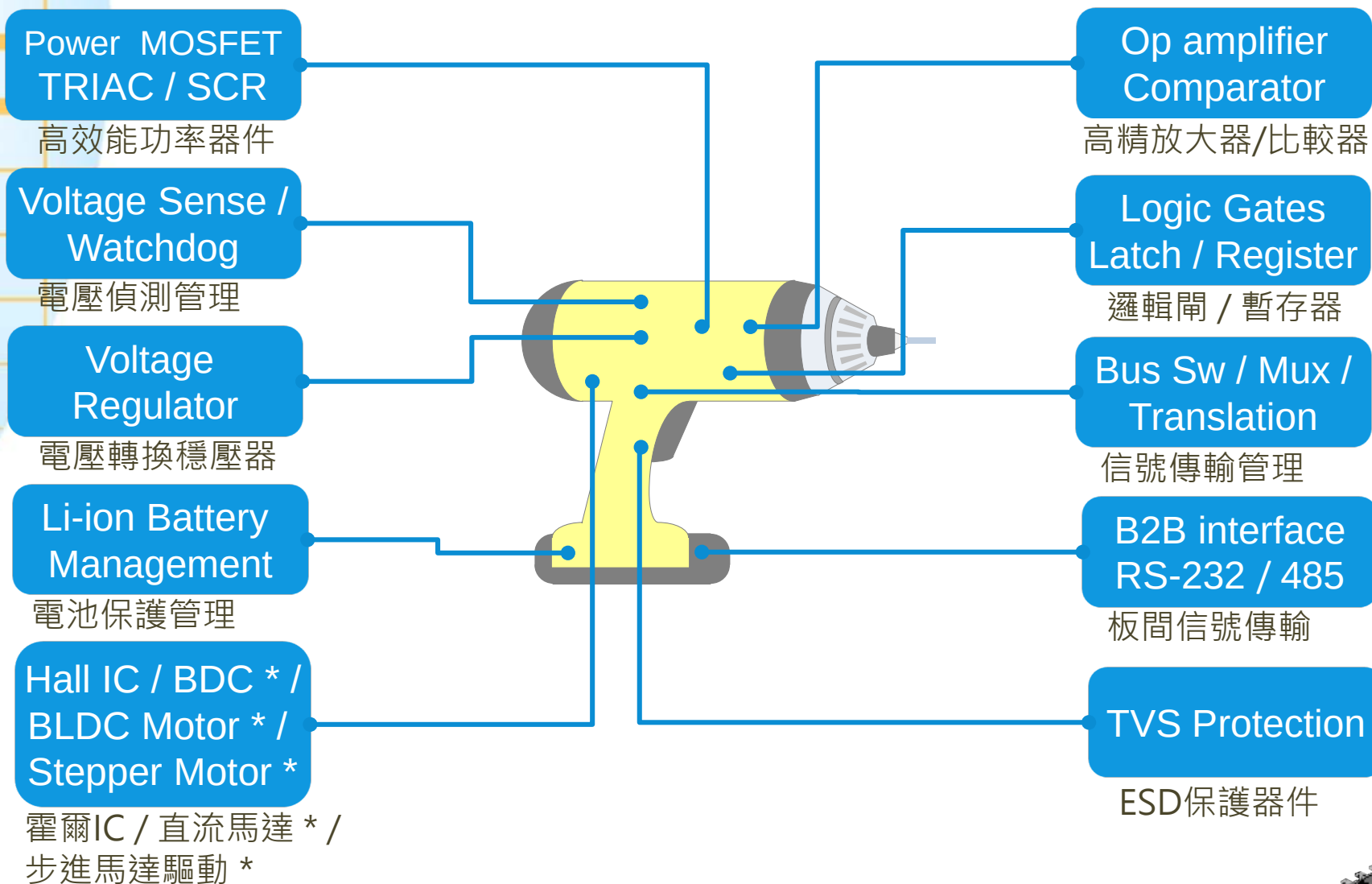


UTC Parts in Power Tool





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 <3μA	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

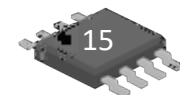
Category	Part No.	Description	Package
RS232 line driver	UT232E	RS-232 line driver/receiver	SOP-16 DIP-16
RS232 line driver	UT3243A	RS-232 3-driver 5-receiver	TSSOP-28 SSOP-28 QFN-32
RS485 line driver	UTRS485	RS-485 driver/receiver (1UL)	SOP-8 DIP-8
RS485 line driver	UTRS3088	RS-485 driver/receiver (1/8UL)	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





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

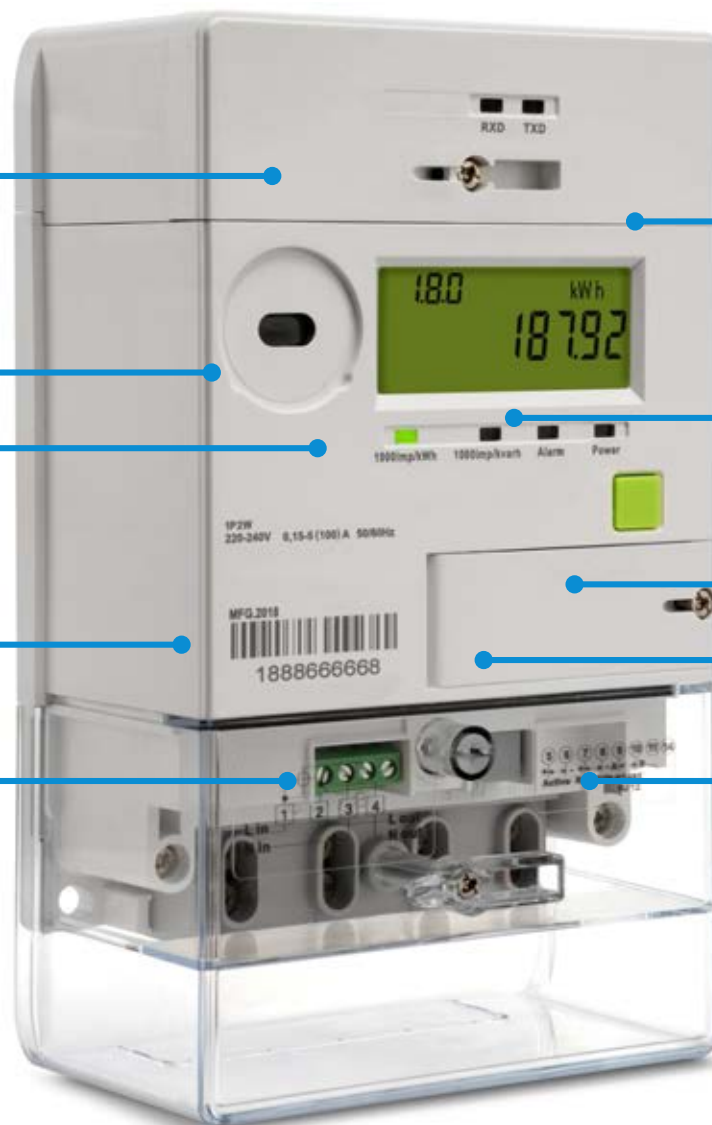
74 系列邏輯閘

Hall IC

霍爾元件

Interface

RS 422/RS485
串口傳輸





UTC Parts in Smart Meter

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





UTC Parts in Smart Meter

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, $-30V_{CEO}$, $-3A$, $h_{FE}=160\sim320$	SOT-223, SOT-89, TO-92
Transistor	2SB1132G-R	PNP, $-32V_{CEO}$, $-1A$, $h_{FE}=180\sim390$	SOT-89, SOT-23, SOT-323 TO-252
Transistor	2SB1260G-Q	PNP, $-80V_{CEO}$, $-1A$, $h_{FE}=120\sim270$	SOT-223, SOT-89, TO-252
Transistor	2SB649AL-C	PNP, $-160V_{CEO}$, $-1.5A$, $h_{FE}=100\sim200$	SOT-223, SOT-89, TO-252 TO-92/NL, TO-126/C/S
Transistor	2SC4672G-B	NPN, $50V_{CEO}$, $3A$, $h_{FE}=200\sim400$	SOT-89
Transistor	2SD669AG-C	NPN, $160V_{CEO}$, $1.5A$, $h_{FE}=100\sim200$	SOT-223, SOT-89, TO-252 SOT-23, TO-251, TO-92/NL TO126/C/S





UPS Solution





UTC Parts in UPS

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(4×4)
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





UTC Parts in UPS

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





UTC Parts in UPS

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





UTC Parts in UPS

Category	Part No.	Description	Package
Transistor	2SA733L-P	PNP, $-50V_{CEO}$, $-150mA$, $h_{FE}=200\sim400$	SOT-23, SOT-323, TO-92 TO-92SP
Transistor	2SA1020G-Y	PNP, $-50V_{CEO}$, $-2A$, $h_{FE}=120\sim240$	SOT-23, SOT-89, TO-92 TO-92NL
Transistor	2SA1012G-R	PNP, $-50V_{CEO}$, $-5A$, $h_{FE}=180\sim360$	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, $25V_{CEO}$, $1.5A$, $h_{FE}=160\sim300$	SOT-89, SOT-23, TO-92, TO-92NL
Transistor	2SC1815L-GR	NPN, $50V_{CEO}$, $150mA$, $h_{FE}=200\sim400$	TO-92
Transistor	2SC1384L-R	NPN, $50V_{CEO}$, $1A$, $h_{FE}=120\sim240$	SOT-89, TO-92, TO-92NL
Transistor	2SC2655G-Y	NPN, $50V_{CEO}$, $2A$, $h_{FE}=120\sim240$	SOT-23, SOT-89, TO-92NL TO-252
Transistor	2SC2235L-Y	NPN, $120V_{CEO}$, $800mA$, $h_{FE}=120\sim240$	TO-92, TO-92NL
Transistor	2SD1616AL-G	NPN, $120V_{CEO}$, $1A$, $h_{FE}=200\sim400$	SOT-89, SOT-223, SIP-3 TO-92, TO-92SP
Transistor	MMBT5551G-B	NPN, $160V_{CEO}$, $600mA$, $h_{FE}=150\sim240$	SOT-23
Transistor	MMBTA42G	NPN, $300V_{CEO}$, $500mA$, $h_{FE}=80\sim300$	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



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

