

UMW<sup>®</sup>  
友台半导体

# UTD SEMICONDUCTOR CO., LIMITED

Originally From Taiwan  
Professional Power Components Manufacturer

[www.umw-ic.com](http://www.umw-ic.com)



Shenzhen · China





## COMPANY PROFILE

UTD Semiconductor Co.,Ltd(UTD for short) founded in 2009, was a Sino-Taiwan joint venture company which headquartered in Shenzhen, with its manufacturing plant in Chongqing, Sichuan Province.

UTD is a high-tech enterprise that primarily engaged in integrated circuit design, packaging, testing, and products distributing.

We have a manufacturing plant that is over 12,000 sqm, more than 100 engineers working in the factory, with the sales scale exceeds 3 billion units of different components globally.

UTD engineer team is consist of experienced professional experts in the field, with several international leading manufacturing production line and a complete IC design system.

Our products have Passed the ISO9001: 2015 quality management system, and certificated by UL、CQC、SGS. We have achieved multiple national patents and software copyrights in power management area. Being positioning as high-end products, we are maintaining a very nice reputation among our customers all over the world.

Concentrate on consumer and industrial market, we involve producing power management chips, LDOs, voltage regulators, Mosfets, ESDs, motor drivers, rectifier bridges, darlington transistors, logic circuits etc.

The UTD products are widely applied in fields including drones, robots, power, computers, LCD TVs, instrmtations , toys, household appliances, communication devices, vehicle electronics, industrial auto equipments .





## PRODUCTION CLASSIFICATION

1

- ◆ low power consuming LDO
- ◆ Three terminal voltage regulator
- ◆ motor driver

2

- ◆ high/low voltage Mosfet ◆ DC-DC
- ◆ temperature sensor

3

- ◆ logic circuits ◆ Operational Amplifier
- ◆ optocoupler ◆ ESD/TVS

## COOPERATIVE BRAND



Diversity  
Efficiency  
Profession



## PRODUCT APPLICATION



3D Printer



PC/TV



self-balancing scooter



UPS/Inverter



Power/Charger



Drone



Video surveillance



consumer electronics



smart robot



Smart household appliances



smart medical instruments



TV set-top box



# ENCAPSULATION SHOW



SOT23



SOT89



SOT223



TO220



TO263



TO252



SOP4



SOP16



SOP8



DIP4



MSOP8



SOT26



SOD123



SOT363



SMC



DFN1006



SC70-6



SMA



SOD323



SOD523



## PRODUCT PARAMETER

Type	Part number	parameter	package
Low Dropout Regulator	HT71XX-1	VIN 30V, IOU 100ma, power consumption $\leq 3\mu\text{a}$ , Vout = 3V, 3.3 V, 3.6V, 4.4V, 5.0V	SOT-89, SOT-23
Low Dropout Regulator	HT75XX-1	VIN 30V, IOU 100ma, power consumption $\leq 3\mu\text{a}$ , Vout = 3V, 3.3 V, 3.6V, 4.4V, 5.0V	SOT-89, SOT-23
Low Dropout Regulator	HT73XX-A	VIN 15V, IOU 250ma, power consumption $\leq 3\mu\text{a}$ , Vout = 3V, 3.3 V, 3.6V, 4.4V, 5.0V	SOT-89, SOT-23
Low Dropout Regulator	HT78XX-A	VIN 12V, IOU 450ma, power consumption $\leq 3\mu\text{a}$ , Vout = 3V, 3.3 V, 3.6V, 4.4V, 5.0V	SOT-89, SOT-23
Low Dropout Regulator	AMS1117	VIN 18V, IOU 1A, Withstand Voltage 18V, Vout=1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, ADJ	SOT-89, SOT-223, TO-252
Low Dropout Regulator	LD1117	VIN 18V, IOU 1A, Withstand Voltage 18V, Vout=1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, ADJ	SOT-223
Low Dropout Regulator	XC6219BXX2MR	VIN 9V, quiescent current 15 $\mu\text{A}$ , IOU 500mA, Vout 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 3.6V	SOT-23
Low Dropout Regulator	XC6206PXX2XR	VIN 9V, quiescent current 6.0 $\mu\text{A}$ , IOU 250mA, Vout = 1.5 V - 5.0 V	SOT-23, SOT-89
Low Dropout Regulator	78MXX	IOU 1A, VIN $\geq 35\text{V}$ , Vout=5V, 6V, 8V, 9V, 12V, 15V	TO-252
Low Dropout Regulator	78LXX	IOU 0.1A VIN $\geq 30\text{V}$ , Vout=5V, 6V, 8V, 9V, 12V, 15V	SOT-89
Low Dropout Regulator	79L05-150	Three-terminal fixed output voltage regulator 0.5W 0.15A -5V-24V	SOT-89
Low Dropout Regulator	78DXXL	IOU 1A, electric current $\geq 500\text{mA}$ , Withstand Voltage $\geq 30\text{V}$ , Vout=5V, 6V, 8V, 9V, 12V, 15V	TO-252
Low Dropout Regulator	L78XXCV	IOU 1.2A, electric current $\geq 800\text{mA}$ , Withstand Voltage $\geq 35\text{V}$ , Vout=5V, 6V, 8V, 9V, 12V	TO-220
Low Dropout Regulator	AMS1084CM-XX	VIN 20V, electric current 5A, Vout = 1.5V, 1.8V, 2.5V, 3.3V, 5.0V, ADJ	TO-263-3L
Low Dropout Regulator	LM317G	VIN 37V, IOU 1.5A, Internal short protection and over temperature protection	SOT-223



## PRODUCT PARAMETER

Type	Part number	parameter	package
Mosfet	1N60	N-Channel VDS = 600V ID = 1A(VGS = $\pm 30$ V) RDS(ON)=11 $\Omega$	SOT-223 TO-252
Mosfet	1N65	N-Channel VDS = 650V ID = 1A(VGS = 30V) RDS(ON)=8.5 $\Omega$	SOT-223 TO-252
Mosfet	2N60	N-Channel VDS = 600V ID = 2A(VGS = 30V) RDS(ON)=4.2 $\Omega$	SOT-223 TO-252
Mosfet	2N65	N-Channel VDS = 650V ID = 2A(VGS = 30V) RDS(ON)=4.5 $\Omega$	SOT-223 TO-252
Mosfet	4N65F	N-Channel VDS = 650V ID = 4A(VGS = 30V)RDS(ON)=2.8 $\Omega$	TO-220F
Mosfet	5N65F	N-Channel VDS= 650V ID = 5A(VGS = 30V) RDS(ON)=1.5 $\Omega$	TO-220F
Mosfet	7N65F	N-Channel VDS = 650V ID = 7A(VGS = 30V) RDS(ON)=1.1 $\Omega$	TO-220F
Mosfet	10N65F	N-Channel VDS = 650V ID = 10A(VGS = 20V) RDS(ON)=0.75 $\Omega$	TO-220F
Mosfet	15N10	N-Channel VDS= 100V ID = 20A(VGS = 20V) RDS(ON)=67m $\Omega$	TO-252
Mosfet	30N06	N-Channel VDS= 60V ID = 30A(VGS = 20V) RDS(ON)=25m $\Omega$	TO-252
Mosfet	40N06	N-Channel VDS= 60V ID = 40A(VGS = 20V) RDS(ON)=14m $\Omega$	TO-252
Mosfet	50N06	N-Channel VDS = 60V ID =50A(VGS = 20V) RDS(ON)=12m $\Omega$	TO-252
Mosfet	100N03A	N-Channel VDS= 30V ID =90A(VGS = 20V) RDS(ON)=3.8 $\Omega$	TO-252
Mosfet	FDN304P	P-Channel,VDS =-20V,ID =-2.4A(VGS = $\pm 8$ V) RDS(ON)=36m $\Omega$ @-4.5V	SOT-23
Mosfet	FDN338P	P-Channel VDS = -20V ID = -2.8A(VGS = $\pm 8$ V) RDS(ON)=90m $\Omega$	SOT-23



## PRODUCT PARAMETER

Type	Part number	parameter	package
Mosfet	FDN340P	P-Channel VDS=-20V ID = -2A(VGS = ±8V) RDS(ON)=52mΩ	SOT-23
Mosfet	FDN335N	N-Channel VDS =20V ID = 1.7A(VGS = ±8V) RDS(ON)=55mΩ	SOT-23
Mosfet	AO3400A	N-Channe VDS = 30V ID = 5.8A(VGS = 10V) RDS(ON)=22.8mΩ	SOT-23
Mosfet	AO3401A	P-Channe VDS = -30V ID = -4.2A (VGS = -10V) RDS(ON)=50mΩ	SOT-23
Mosfet	AO3402A	N-Channe VDS= 30V ID = 4A (VGS = ±12V) RDS(ON)=55mΩ	SOT-23
Mosfet	AO3407A	P-Channe VDS= -30V ID = -4.1A(VGS = ±20V) RDS(ON)=40.5mΩ	SOT-23
Mosfet	AO3413A	P-Channe VDS =-20V ID =-3A (VGS = -4.5V) RDS(ON)=56mΩ	SOT-23
Mosfet	AO3414A	N-Channel VDS =20V ID = 4.2A (VGS = 4.5V) RDS(ON)=41mΩ	SOT-23
Mosfet	AO3415A	P-Channe VDS=-20V ID = -4A(VGS = ±8 V) RDS(ON)=37mΩ	SOT-23
Mosfet	AO3416A	N-Channel VDS =20V ID = 6.5A(VGS = 4.5V) RDS(ON)= 22mΩ	SOT-23
Mosfet	AO3422A	N-Channel VDS =60V ID =2.1A(VGS = ±20V) RDS(ON)= 80mΩ	SOT-23
Mosfet	AO4407A	P-Channel VDS =-30V ID=-10A(VGS = ± 20V) RDS(ON)=18mΩ	SOP-8
Mosfet	SI2300A	N-Channel VDS= 20V ID= 6A(VGS = ±12 V) RDS(ON)=21mΩ	SOT-23
Mosfet	SI2301A	P-Channel VDS =-20V ID=-2.8A(VGS = ±12V) RDS(ON)=55mΩ	SOT-23
Mosfet	SI2302A	N-Channel VDS= 20A ID=3.6A(VGS = ±8V) RDS(ON)=45mΩ	SOT-23



## PRODUCT PARAMETER

Type	Part number	parameter	package
Mosfet	SI2305A	P-Channel VDS = -20V ID=-4.5A(VGS = ±12V) RDS(ON)=65mΩ	SOT-23
Mosfet	SI2306A	N-Channel VDS =30V ID=3.5A(VGS =-10V) RDS(ON)=46mΩ	SOT-23
Mosfet	SI2307A	P-Channel VDS =-30V ID=-3.0A(VGS =-10V) RDS(ON)=64mΩ	SOT-23
Mosfet	SI2308A	N-Channel VDS = 60V ID=2A(VGS = 10V) RDS(ON)=160mΩ	SOT-23
Mosfet	SI2310A	N-Channel VDS= 60V ID=3A(VGS = ±20V) RDS(ON)= 90mΩ	SOT-23
Mosfet	SI2312A	N-Channel VDS = 20V ID=4.9A(VGS = 4.5V) RDS(ON)= 27mΩ	SOT-23
Mosfet	STN4438	N-Channel VDS = 60V ID=8.2A(VGS = ±20V) RDS(ON)= 35mΩ	SOP-8
Mosfet	SVT078R0ND	N-Channel VDS = 68V ID=88A (VGS = ±20V) RDS(ON)= 63mΩ	TO-252
Mosfet	STD20NF06L	N-Channel VDS = 60V ID =30A (VGS = ±20V) RDS(ON)= 25mΩ	TO-252
Mosfet	IRLML6401	P-Channel VDS =-12V ID =-4.3A (VGS = ±8V) RDS(ON)= 50mΩ	SOT-23
Mosfet	IRLML6402	P-Channel VDS = -20V ID =-3.7A (VGS = ±12V) RDS(ON)=50mΩ	SOT-23
Mosfet	IRLML2502	N-Channel VDS = 20V ID = 4.2A (VGS = ±12 V) RDS(ON)=35mΩ	SOT-23
Mosfet	IRLML5203	P-Channel VDS =-30V ID = -3.0A (VGS = ±20 V) RDS(ON)=85mΩ	SOT-23
Mosfet	8205A	N-Channe VDS = 20V ID = 5A (VGS = ±12 V) RDS(ON)=22mΩ	SOT-23-6
Mosfet	BSS84	P-Channel VDS = -50V ID = 0.13A(VGS = ±20 V) RDS(ON)=10Ω	SOT-23



## PRODUCT PARAMETER

Type	Part number	parameter	package
Mosfet	BSS138	N-Channe VDS = 50V ID = 300mA(VGS = ±20V) RDS(ON)=2.5Ω	SOT-23
Mosfet	NDC7002N	N-Channe VDS =50V ID =0.51A(VGS =20V) RDS(ON)=1Ω	SOT-23-6
RS232 Transceiver chip	MAX232ESE	Operate from Single +5 V Power Supply,Guaranteed 120 kbps Data Rate	SOP-16
RS232 Transceiver chip	MAX3232ESE	from a +3.0V to +5.5V power supply,Minimum 120Kbps Data Rate Under FullLoad	SOP-16
RS232 Transceiver chip	SP3232EEN	from a +3.0V to +5.5V power supply, Minimum 120Kbps Data Rate Under FullLoad	SOP-16
RS232 Transceiver chip	SP232EEN	Operate from Single +5 V Power Supply,Guaranteed 120 kbps Data Rate	SOP-16
RS232 Transceiver chip	ADM232AARNZ	Operate from Single +5 V Power Supply,Guaranteed 120 kbps Data Rate	SOP-16
RS232 Transceiver chip	ADM3232EARNZ	from a +3.0V to +5.5V power supply, Minimum 120Kbps Data Rate Under FullLoad	SOP-16
optocoupler	LTV-100X	High isolation 5000 VRMS, DC input with transistor output	LSOP-4
optocoupler	EL101X	High isolation 5000 VRMS, DC input with transistor output	LSOP-4
optocoupler	6N137M	Very high speed – 10 MBit/s,Superior CMR – 10 kV/μs,Double working voltage-480V	LSOP-4
optocoupler	MOC3052M	High isolation voltage between input and output (Viso =5000 Vrms)	LSOP-4
optocoupler	817C	Current Conversion Ratio (Min 50% Working Condition IF=5mA, VCE=5V), Insulation Voltage = 5,000Vrms, Response Time (tr: TYP. 4μs working condition VCE=2V, IC=2mA, RL=100 Ω)	DIP-4
optocoupler	817C-S	Current Conversion Ratio (Min 50% Working Condition IF=5mA, VCE=5V),Insulation Voltage = 5,000Vrms, Response Time (tr: TYP. 4μs working condition VCE=2V, IC=2mA, RL=100 Ω)	SOP-4



## PRODUCT PARAMETER

Type	Part number	parameter	package
optocoupler	EL357C	High isolation 3750 VRMS,DC input with transistor output	SOP-4
optocoupler	LTV816D	Current conversion ratio (Min 50% Working condition IF=5mA,VCE=5V),(VISO=5,000Vrms) Insulation Voltage = 5,000Vrms, Response Time (tr: TYP. 4μs;tf: TYP. 5μs)working condition VCE=10V, IC=2mA, RL=100 Ω	DIP-4
optocoupler	LTV816D-S	Current conversion ratio (Min 50% Working condition IF=5mA, VCE=5V),(VISO=5,000Vrms) Insulation Voltage = 5,000Vrms, Response Time (tr: TYP. 4μs;tf: TYP. 5μs)working condition VCE=10V, IC=2mA, RL=100 Ω	SOP-4
optocoupler	TLP521GB	Collector-emitter voltage: 55V (min),Isolation Voltage:5000Vrms(high)	DIP-4
optocoupler	TLP521GB-S	Collector-emitter voltage: 55V (min),Isolation Voltage:5000Vrms (high)	SMD
optocoupler	PS2501	BV=5000Vr.m.s, VCEO =80V,High-speed switching (tr = 3s TYP., tf = 5sTYP.)	DIP-4
optocoupler	PS2501-S	BV=5000Vr.m.s, VCEO =80V,High-speed switching (tr = 3s TYP., tf = 5sTYP.)	SMD
optocoupler	TLP785GB	Collector-emitter voltage: 80V (min),Isolation voltage: 5000Vrms (min)	DIP-4
optocoupler	TLP785GB-S	Collector-emitter voltage:80V (min),Isolation voltage: 5000Vrms (min)	SMD
optocoupler	TLP181GB-S	Collector-Emitter Voltage:80V(Min.),Isolation Voltage: 3750Vrms (Min)	SOP-4
optocoupler	TLP185GB-S	Collector-emitter voltage:80V(min), Isolation voltage: 3750 Vrms (min)	SOP-4
optocoupler	TLP621GB-1	Collector-Emitter Voltage:55V(Min),Current Transfer Ratio:50% (Min)	DIP-4
MCU monitor chip	MAX809XX	Reset voltage (T=3.08V,R=2.93V,S=2.63V),Delay time (Min=140ms)	SOT-23
CUT driver	AP1511B	Low saturation voltage (0.73 V @ 300mA, VDD = 5V), low standby current (< 10uA)	SOT23-6
Battery power management chip	TP4054	Programmable charging current up to 500mA, Preset charging voltage: 4.2V 1%	SOT23-5



## PRODUCT PARAMETER

Type	Part number	parameter	package
Battery power management chip	TP4056	Programmable charging current 1000 mA, automatic recharging	ESOP8
Battery power management chip	TP4057	Programmable charge current 500 mA, automatic recharge, soft start limit inrush	SOT23-6
analog switch chip	SN74LVC1G3157DCKR	Break-to-open protection against short circuit, low output impedance	SC70-6
analog switch chip	SGM3157	Low power consumption, Switches for NTSC/PAL video, audio, Spdif and HDTV	SC-70-6
motor driver	L9110S	Supply voltage range 2.2 ~ 6.5 V, low quiescent operating current (MAX=2uA)	SOP-8
temperature sensor	DS18B20	Conversion temperature time 500ms, Wide Supply Voltage 2.5V-5.5V	TO-92
temperature sensor	DS18B20U	Super ESD Protection Capability (HBM>8000V), Typical standby current power consumption 1μA@3V, Typical commutation power consumption 0.6mA@3V	MSOP8
temperature sensor	DS18B20Z	Super ESD Protection Capability (HBM>8000V), Typical standby current power consumption 1μA@3V, Typical commutation power consumption 0.6mA@3V	SOP-8
temperature sensor	LM75BD	I2C-bus interface with up to 8 devices on the same bus	SOP-8
temperature sensor	LM75BDP	Power supply range from 2.8 V to 5.5 V	TSSOP-8
Infrared sensor	BISS0001	Operating voltage range +3V~5V	SOP-16
General Operational Amplifier	LM158DR	Single power supply or dual power supply, low power consumption	SOP-8
General Operational Amplifier	LM258DR	Single power supply or dual power supply, low power consumption	SOP-8
General Operational Amplifier	LM321MF	Low supply current: 430pA, Low input bias current: 45nA	SOT23-5
General Operational Amplifier	LM358ADR	Single or dual power supply, logic circuit matching, wide frequency range	SOP-8



# PRODUCT PARAMETER

Type	Part number	parameter	package
General Operational Amplifier	LM393ADR	Wide Single-Supply Range: 2.0 V to 36 V, Low Input Offset Voltage: 5.0 mV	SOP-8
General Operational Amplifier	JRC4558D	Low noise VNI = 2.5uV, high frequency bandwidth BW = 3MHz	SOP-8
LED driver	ET6226M	Segment drive current not less than 25mA, word drive current is not less than 150mA	SOP-16
LED driver	PT4115	Wide input voltage range: from 6 V to 30 V, maximum output current 1.2 A.	SOT89-5
monitor and reset chip	HT70XX	Low power consumption, typical value: 2.0uA, wide operating voltage range: 1.5V ~ 12V	SOT-23 SOT-89
Timer	NE555DR	TTL-Compatible Output Can Sink or Source of operation	SOP-8
logic circuit	SN74LVC1G00DBVR	High output driver: VCC = 4.5V > 32MA	SOT23-5
logic circuit	SN74LVC1G04DBVR	Low input current: 0.1 uA typ, low static power consumption: 0.1 u typ	SOT23-5
logic circuit	SN74LVC1G08DBVR	Low input current: 0.1 uA typ, low static power consumption: 0.1 u typ	SOT23-5
logic circuit	SN74LVC1G14DBVR	Low input current: 0.1 uA typ, low static power consumption: 0.1 u typ	SOT23-5
darlington tube	ULN2803A	High output voltage (up to 50V, high output current up to 500mA)	SOP-18
darlington tube	ULN2003A	High output voltage (up to 50V, high output current up to 500mA)	SOP-16
RS-485/RS-422 chip	MAX3485ESA	3.3V power supply, half duplex, 1 / 8 unit load, allowing up to 256 devices connected to the bus, The data transmission rate in electric noise environment can reach 12Mbps	SOP-8
RS-485/RS-422 chip	SP3485EEN	3.3V power supply, half duplex, 1 / 8 unit load, allowing up to 256 devices connected to the bus, The data transmission rate in electric noise environment can reach 12Mbps	SOP-8
RS-485/RS-422 chip	MAX485ESA	Low Quiescent Current: 300uA, -7V to +12V Common-Mode Input Voltage Range, transmit up to 2.5Mbps	SOP-8



## PRODUCT PARAMETER

Type	Part number	parameter	package
RS-485/RS-422 chip	SP485EN	Low Quiescent Current: 300 $\mu$ A, -7V to +12V Common-Mode Input Voltage Range, transmit up to 2.5Mbps	SOP-8
RS-485/RS-422 chip	SN75LBC184DR	Low Disabled Supply Current 300 $\mu$ A Max, overvoltage transients of 400W peak	SOP-8
RS-485/RS-422 chip	SN65176BDR	Single +5V Supply, -7V to +12V Bus Common Mode Range Permits $\pm$ 7V Ground Difference Between Devices on the Bus	SOP-8
RS-485/RS-422 chip	SN65LBC184DR	Low Disabled Supply Current 300 $\mu$ A Max, 1/4 Unit Load Allows for 128 Devices, 250kbp transmission	SOP-8
RS-485/RS-422 chip	ADM3485EARZ	3.3V power supply, half duplex, 1 / 8 unit load, allowing up to 256 devices connected to the bus, The data transmission rate in electric noise environment can reach 12Mbps	SOP-8
voltage comparator	LM293DR	Wide Single-Supply Range: 2.0 V to 36V	SOP-8
voltage comparator	LM2903DR	Wide Single-Supply Range: 2.0 V to 36V	SOP-8
voltage comparator	LM193DR	Wide Single-Supply Range: 2.0 V to 36V	SOP-8
voltage comparator	LM2904DR	Single or dual power supply, wide frequency range, low power consumption	SOP-8
voltage reference chip	TL431 (0.5%)	Reference input Voltage (typ. 2.495V), Sink Current Capability of 0.1mA to 100mA, Programmable Output Voltage to 36V	TO-92 SOT-23
voltage reference chip	TL432 0.5%	highly accurate 1.25V band gap reference with 0.5%, 1% tolerance, Sink current capability of 0.1mA to 100mA	SOT-23
DC-DC chip	LM2575S-XX	These devices are available in fixed output voltages of 3.3V, 5V, 12V, and an ADJ	TO263-5
DC-DC chip	LM2576S-XX	These devices are available in fixed output voltages of 3.3V, 5V, 12V, 15V, and an ADJ	TO263-5
DC-DC chip	LM2596S-XX	These devices are available in fixed output voltages of 3.3V, 5V, 12V, and an ADJ	TO263-5
DC-DC chip	LM2594M-XX	3.3V, 5V, 12V, and adjustable versions Output Adjustable from 1.23V to 37V	SOP-8



# PRODUCT PARAMETER

Type	Part number	parameter	package
DC-DC chip	XL1509-XX	3.3V,5V,12V, and ADJustable versions	SOP-8, SOIC-8
DC-DC chip	AP1501-XX	These devices are available in fixed output voltages of 3.3V, 5V, 12V, and an adjustable	TO-263
DC-DC chip	ME2188AXXM3G	Output voltage range: 1.8V ~ 3.6V(0.1 V per step),power consumption 15ua	SOT23-3 SOT23-5 SOT89-3
AC-DC	UC3845B	Low Start-Up and Operating Current, High Current Totem Pole Output	SOP-8
ESD/TVS	USBLC6-2SC6	Operating voltage: 5V, 150W peak pulse power (tp = 8/20μs),Peak Pulse Current 6A, Reverse LeakageCurrent 0.1uA ,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOT-23-6
ESD/TVS	PESD5V2S2UT	550W peak pulse power (tp = 8/20μs),Peak Pulse Current 20A, Reverse LeakageCurrent 0.5uA ,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOT-23
ESD/TVS	PESD5V0L1BA	550W peak pulse power (tp = 8/20μs),Peak Pulse Current 30A, Reverse Leakage Current 1uA,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOD-323
ESD/TVS	PESD12VL1BA	260W peak pulse power (tp = 8/20μs),Peak Pulse Current10A, Reverse Leakage Current1uA,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOD-323
ESD/TVS	PESD3V3S2UT	350 W peak pulse power (tp = 8/20μs), Peak Pulse Current 20A, Reverse Leakage Current 0.5uA,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOT-23
ESD/TVS	PESD1CAN	200W peak pulse power (tp = 8/20 μs) , Peak Pulse Current 3A, Reverse Leakage Current 0.5uA,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOT-23
ESD/TVS	PSD05C-LF-T7	450W peak pulse power (8/20μs), Peak Pulse Current 34A,Reverse Leakage Current 0.5uA,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOD-323
ESD/TVS	PSM712-LF-T7	150W peak pulse power(8/20μs), Peak Pulse Current 7A,Reverse Leakage Current 0.5uA,ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOT23-3
ESD/TVS	SM05.TCT	Working voltages : 5V,450W peak pulse power (8/20μs),Reverse Leakage Current 1uA,ESD(Air discharge: ±15kV, Contact discharge: ±8kV)	SOT-23
ESD/TVS	SD12C	Working voltages :3V,5V,8V,12V,15V,18V,20V,24V,36V,350W Peak Pulse Power (8/20μs),ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SPD-323
ESD/TVS	SM24	Working voltages:3.3Vto36V,350 Watts Peak Pulse Power per (tp=8/20μs), Reverse Leakage Current 1uA,ESD(Air discharge: ±15kV, Contact discharge: ±8kV)	SOT-23



## PRODUCT PARAMETER

Type	Part number	parameter	package
ESD/TVS	SRV05-4.TCT	60W Peak Pulse Power (tp=8/20μs), Peak Pulse Current 3A, Reverse Leakage Current 0.5μA, ESD(Air discharge: ±30kV, Contact discharge: ±25kV)	SOT23-6
ESD/TVS	IP4220CZ6	Ultra low capacitance: 0.35 pF typical (I/O to I/O), Reverse Leakage Current 0.3μA, ESD(Air discharge: ±25kV, Contact discharge: ±25kV)	SOT23-6
ESD/TVS	PESD5V0S1BB	130W peak pulse power (tp=8/20μs), Peak Pulse Current 12A, Reverse Leakage Current 5nA, ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOD-523
ESD/TVS	PESD3V3L1BA	480W peak pulse power (tp = 8/20 μs), Peak Pulse Current 20A, Reverse Leakage Current 1μA, ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOD-323
ESD/TVS	PESD5V0S2BT	300 W peak pulse power (tp = 8/20 μs), Peak Pulse Current 20A, Reverse Leakage Current 1μA, ESD(Air discharge: ±30kV, Contact discharge: ±30kV)	SOT-23
ESD/TVS	PESD2CAN	250 W peak pulse power (tp = 8/20 μs) Peak Pulse Current 5A, Reverse Leakage Current 0.5μA, ESD(Air discharge: ±30kV, Contact discharge: ±25kV)	SOT-23
ESD/TVS	PESD24VL1BA	300W peak pulse power (tp = 8/20 μs), Peak Pulse Current 6A, Reverse Leakage Current 0.5μA, ESD(Air discharge: ±30kV, Contact discharge: ±25kV)	SOD-323
ESD/TVS	SMF5.0A	Stand-off voltage; 5 -170 Volts, Maximum PPK Dissipation (PW - 10/1000 μs)200W	SOD123-FL
ESD/TVS	SMF6.0A	Stand-off voltage; 5 -170 Volts, Maximum PPK Dissipation (PW - 10/1000 μs)175W	SOD-123FL
ESD/TVS	SMF6.0CA	Stand-off voltage; 5 -170 Volts, Maximum PPK Dissipation (PW - 10/1000 μs)175W	SOD123-FL
ESD/TVS	SMAJ5.0A	400W Peak pulse power dissipation with a 10/1000 μs Maximum Reverse Leakage 800μA, TEST CURRENT 10mA	SMA
ESD/TVS	SMAJ5.0CA	400W Peak pulse power dissipation with a 10/1000 μs Maximum Reverse Leakage 800μA, TEST CURRENT 10mA	SMA
ESD/TVS	SMAJ15A	400W Peak pulse power dissipation with a 10/1000 μs Maximum Reverse Leakage 1μA, TEST CURRENT 1mA	SMA
ESD/TVS	SMAJ15CA	400W Peak pulse power dissipation with a 10/1000 μs Maximum Reverse Leakage 1μA, TEST CURRENT 1mA	SMA
ESD/TVS	SMAJ188CA	400W Peak pulse power dissipation with a 10/1000 μs Maximum Reverse Leakage 1μA, TEST CURRENT 1mA	SMA



## PRODUCT PARAMETER

Type	Part number	parameter	package
ESD/TVS	SMBJ5.0A	600W peak pulse power capability with a 10/1000 $\mu$ s Maximum Reverse Leakage 800 $\mu$ A	SMB
ESD/TVS	SMBJ5.0CA	600W peak pulse power capability with a 10/1000 $\mu$ s Maximum Reverse Leakage 800 $\mu$ A	SMB
ESD/TVS	SMBJ188A	600W peak pulse power capability with a 10/1000 $\mu$ s Maximum Reverse Leakage 1 $\mu$ A	SMB
ESD/TVS	SMBJ188CA	600W peak pulse power capability with a 10/1000 $\mu$ s Maximum Reverse Leakage 1 $\mu$ A	SMB
ESD/TVS	SMCJ5.0A	1500W surge capability at 1ms, Peak Forward Surge Current 200A Maximum Reverse Leakage 1000 $\mu$ A	SMC
ESD/TVS	SMCJ5.0CA	1500W surge capability at 1ms, Peak Forward Surge Current 200A Maximum Reverse Leakage 1000 $\mu$ A	SMC
ESD/TVS	SMCJ188A	1500W surge capability at 1ms Maximum Reverse Leakage 5.0 $\mu$ A	SMC
ESD/TVS	SMCJ188CA	1500W surge capability at 1ms Maximum Reverse Leakage 5.0 $\mu$ A	SMC
ESD/TVS	P4SMA6.8A	400W surge capability at 1ms Maximum Reverse Leakage 1000 $\mu$ A	SMA
ESD/TVS	P4SMA6.8CA	400W surge capability at 1ms Maximum Reverse Leakage 1000 $\mu$ A	SMA
ESD/TVS	P4SMA440A	400W surge capability at 1ms Maximum Reverse Leakage 5 $\mu$ A	SMA
ESD/TVS	P4SMA440CA	400W surge capability at 1ms Maximum Reverse Leakage 5 $\mu$ A	SMA
ESD/TVS	P6SMB6.8A	600W peak pulse power capability with a 10/1000 $\mu$ s waveform, Reverse Leakage 1000 $\mu$ A	SMB
ESD/TVS	P6SMB6.8CA	600W peak pulse power capability with a 10/1000 $\mu$ s waveform, Reverse Leakage 1000 $\mu$ A	SMB
ESD/TVS	P6SMB440CA	600W peak pulse power capability with a 10/1000 $\mu$ s waveform, Reverse Leakage 1 $\mu$ A	SMB



## PRODUCT PARAMETER

Type	Part number	parameter	package
ESD/TVS	1.5SMC6.8A	1500W peak pulse power capability with a 10/1000ps waveform, Maximum reverse leakage 1000 $\mu$ A	SMC
ESD/TVS	1.5SMC6.8CA	1500W peak pulse power capability with a 10/1000ps waveform, Maximum reverse leakage 1000 $\mu$ A	SMC
ESD/TVS	SS14	Maximum Repetitive Peak Reverse Voltage 40V,Maximum RMS voltage 28V	SMA
ESD/TVS	SS14F	Maximum Repetitive Peak Reverse Voltage 40V,Maximum RMS voltage 28V	SMAF
ESD/TVS	SS16	Maximum Repetitive Peak Reverse Voltage 60V,Maximum RMS voltage 42V	SMA
ESD/TVS	SS26	Maximum Repetitive Peak Reverse Voltage 60V,Maximum RMS voltage 42V	SMA
ESD/TVS	SS26F	Maximum Repetitive Peak Reverse Voltage 60V,Maximum RMS voltage 42V	SMAF
ESD/TVS	SS34	Maximum Repetitive Peak Reverse Voltage 40V,Maximum RMS voltage 28V	SMA
ESD/TVS	SS34F	Maximum Repetitive Peak Reverse Voltage 40V,Maximum RMS voltage 28V	SMAF
ESD/TVS	SS34BF	Maximum repetitive peak reverse voltage 40V,Maximum RMS voltage 28V	SMBF
ESD/TVS	US1J	Single phase, half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%	SMA
ESD/TVS	US1M	Single phase, half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%	SMA
ESD/TVS	SS26	Maximum Recurrent Peak Reverse Voltage 60V,Maximum RMS Voltage 42V	SMB
ESD/TVS	SS34	Maximum DC Blocking Voltage 40V,Maximum Average Forward Rectified Current 3.0A	SMB
ESD/TVS	SS34	Maximum Repetitive Peak Reverse Voltage 40V,Maximum RMS Voltage 28V	SMC



# CERTIFICATIONS

## UL 1577 File No.E492440



## SGS Test Report



## ISO9001 Certificate











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