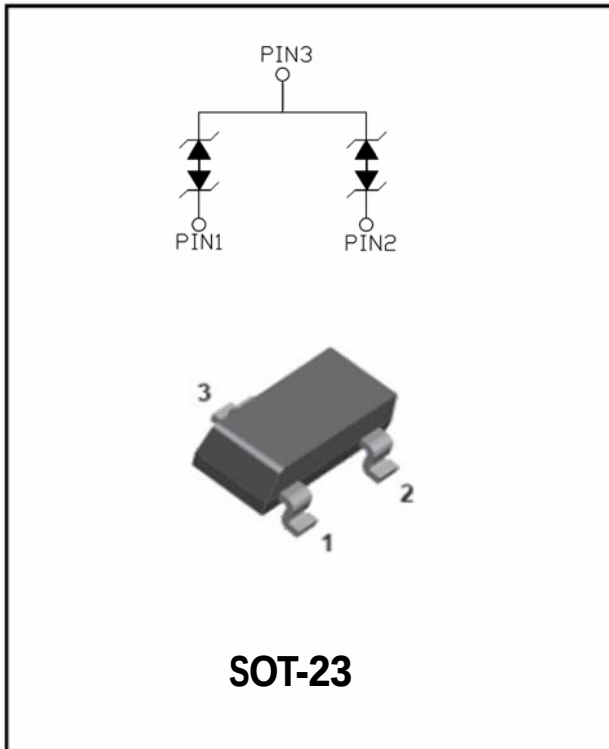


2-Line, Bi-directional, Transient Voltage Suppressor



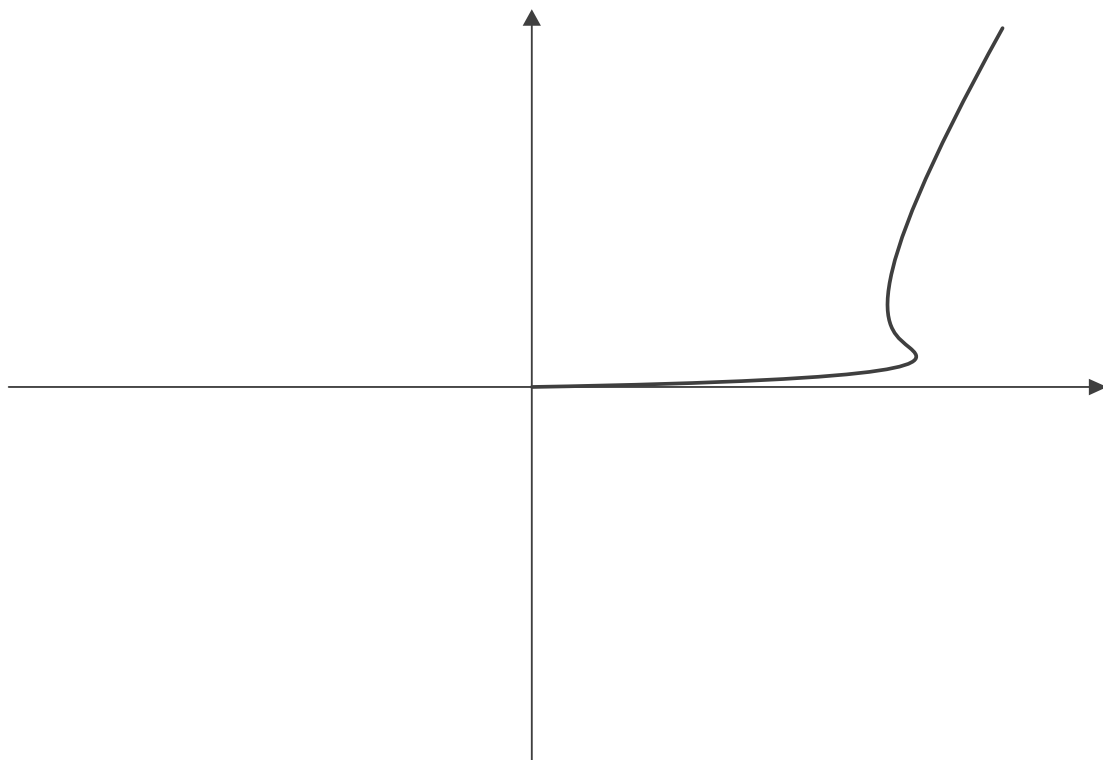
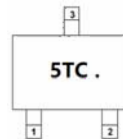
Features

- Stand-off voltage: $\pm 5V$ Max
- Transient protection for each line according to
IEC61000-4-2(ESD): $\pm 8kV$ (contact)
IEC61000-4-5(surge): 2A (8/20 μs)
- Low leakage current:
- Ultra low clamping voltage
- RoHS Compliant

Applications

- Cellular Handsets and Accessories
- Notebooks and Handhelds
- Personal Digital Assistants
- Portable Instrumentation
- Digital Cameras
- Peripherals
- Audio Players, Keypads, Side Keys, LCD

- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020
- Marking Informa ! ! ! ! !





ESDLC0502EB

■Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	28	W
Peak pulse current ($t_p = 8/20\mu s$)	I_{PP}	2	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 15	KV
ESD according to IEC61000-4-2 contact discharge		± 8	
Junction temperature	T_J	-55~125	$^{\circ}C$
Storage temperature	T_{STG}	-55~150	$^{\circ}C$

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse maximum working voltage	V_{RWM}	V				± 5
Reverse leakage current	I_R	μA	$V_{RWM} = 5V$ Pin1/Pin2 to Pin3			0.5
Reverse breakdown voltage	V_{BR}	V	$I_T = 1mA$ Pin1/Pin2 to Pin3	5.5		9.5
Clamping voltage ¹⁾	V_{CL}	V	$I_{PP} = 1A, t_p = 8/20\mu s$ Pin1/Pin2 to Pin3			11
		V	$I_{PP} = 2A, t_p = 8/20\mu s$ Pin1/Pin2 to Pin3			14

■ Characteristics (Typical)

Fig.1 8/20 μ s waveform per IEC61000-4-5

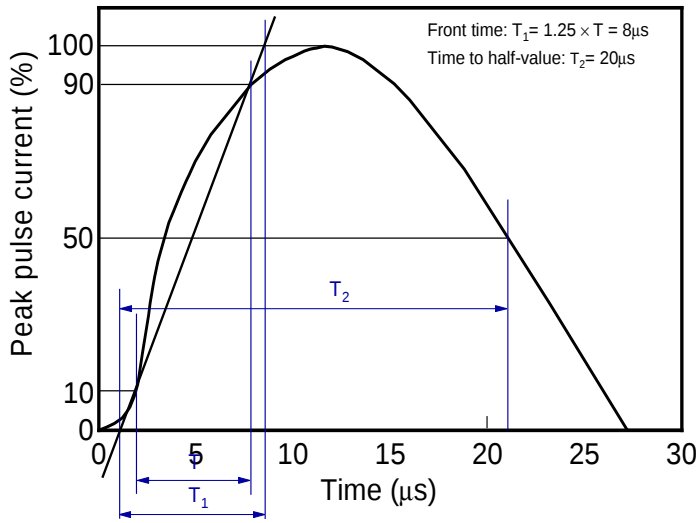


Fig.2 Contact discharge current waveform per IEC61000-4-2

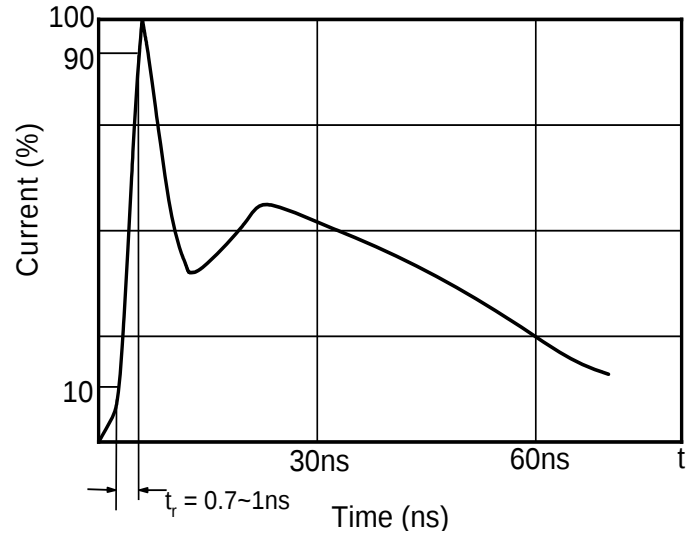


Fig.3 Clamping voltage vs. Peak pulse current

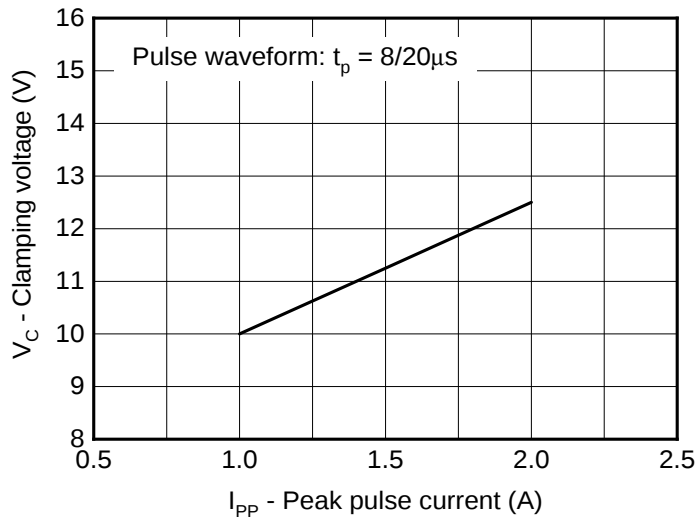


Fig.4 Capacitance vs. Reverse voltage

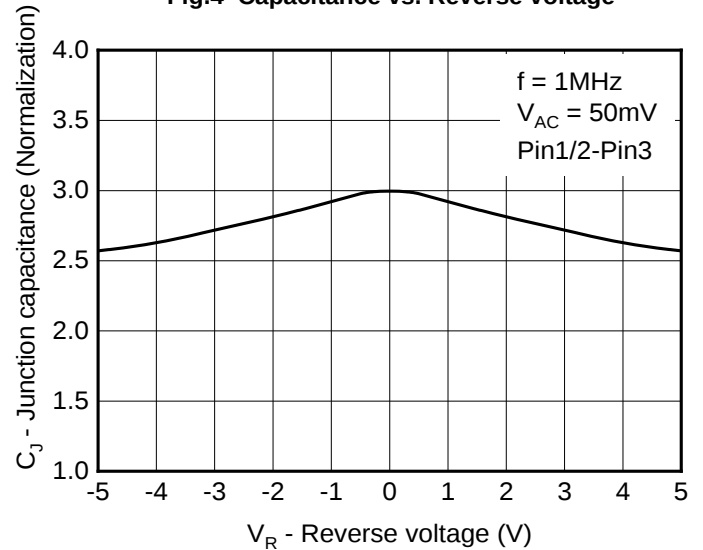


Fig.5 Non-repetitive peak pulse power vs. Pulse time

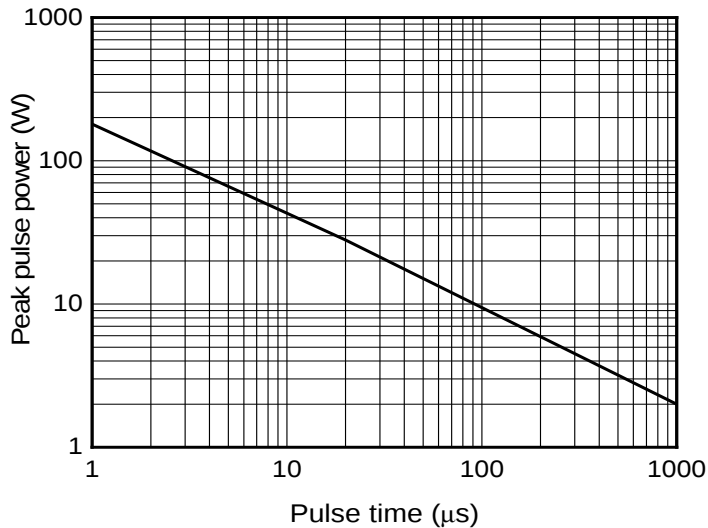
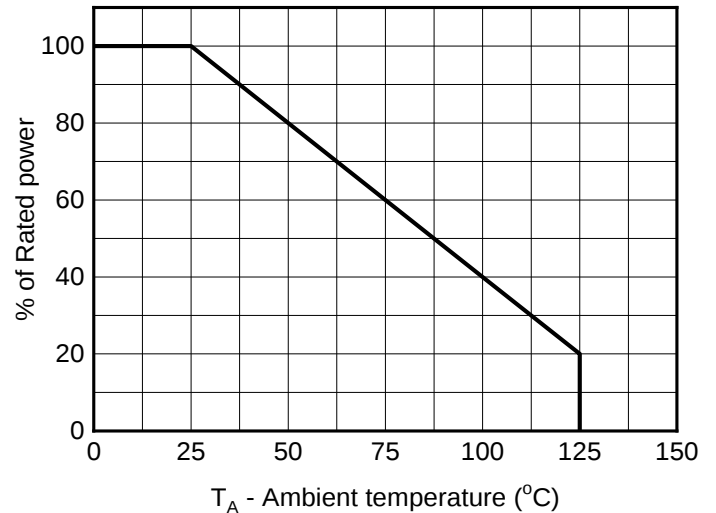
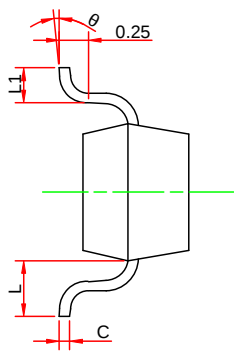
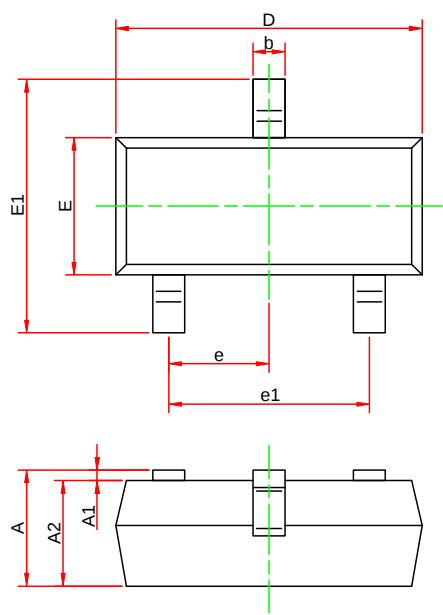


Fig.6 Power derating vs. Ambient temperature



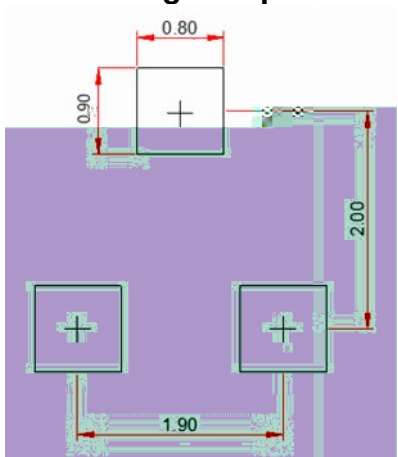


■ Outline Dimensions



Symbol	Dimensions in millimeters		
	Min.	Typ.	Max.
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Ω Soldering Footprint





Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with