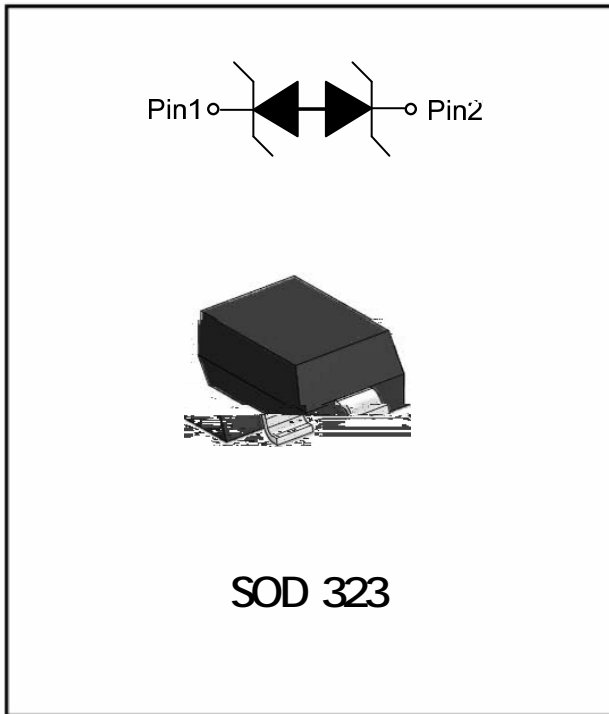


1- Line, Bi-directional, Transient Voltage Suppressor



Features

- Stand-off voltage: $\pm 6.2\text{V}$ Max
- Transient protection for each line according to
 - IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact)
 - IEC61000-4-5(surge): 24A ($8/20\mu\text{s}$)
- Low leakage current:
- Ultra low clamping voltage
- RoHS Compliant

Applications

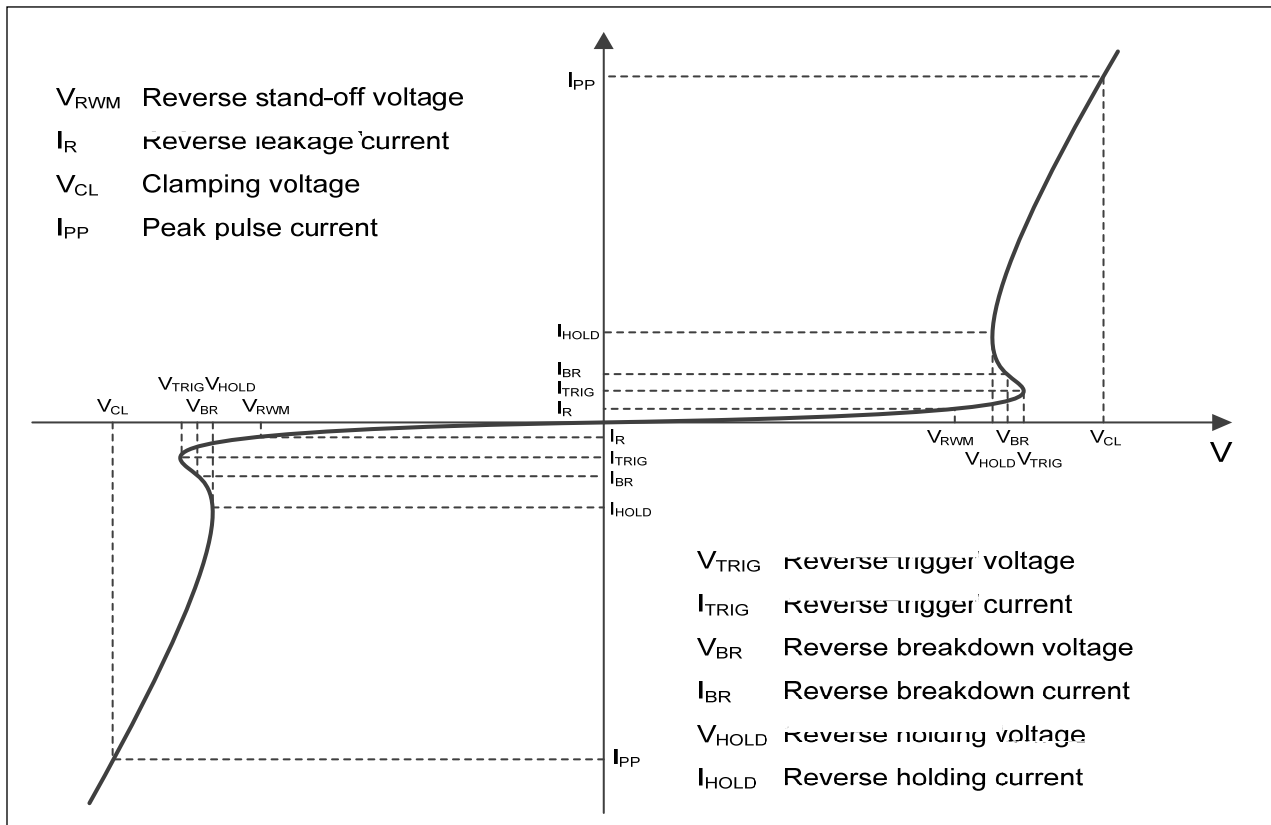
- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Peripherals
- Pagers Peripherals
- Desktop and Servers

Mechanical Data

- Package: SOD-323
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020
- Marking Information: See Below



Definitions of electrical characteristics





ESD6V2D3B

Maximum Ratings

PARAMETER	SYMBOL	LIMIT	UNIT
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	3	W
Peak pulse current ($t_p = 8/20\mu s$)	I_{pp}	24	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	
Junction temperature	T_J	125	$^{\circ}C$
Operating temperature	T_{OP}	-40~85	$^{\circ}C$
Storage temperature	T_{STG}	-55~150	$^{\circ}C$

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
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Characteristics (Typical)

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

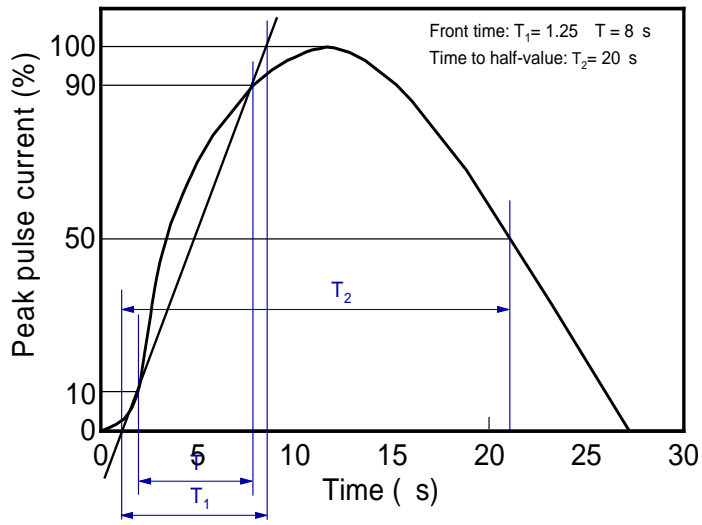
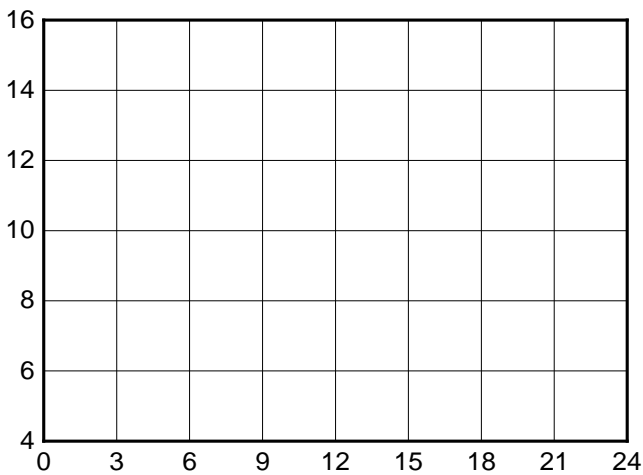
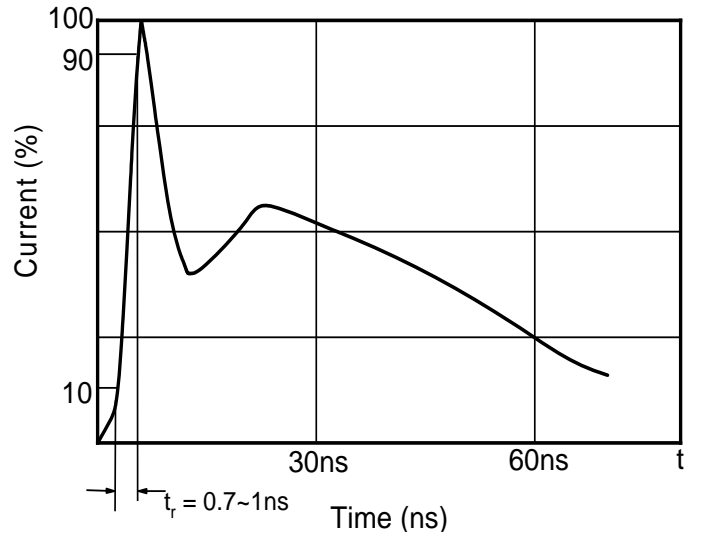


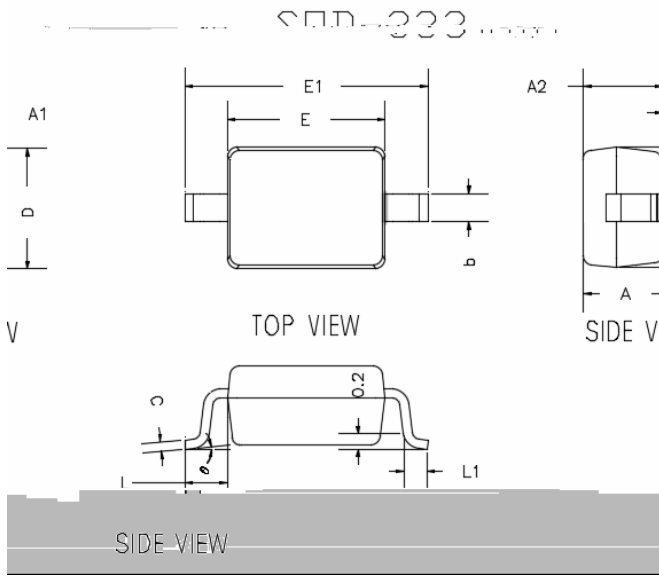
Fig.2 Contact discharge current waveform per IEC61000-4-2





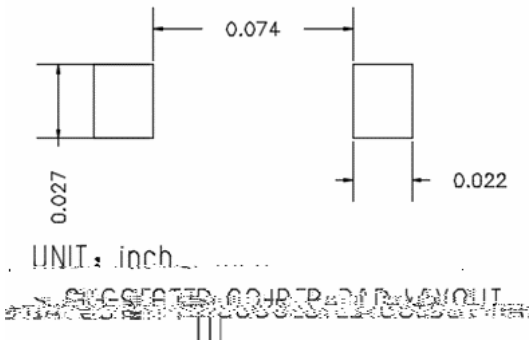
ESD6V2D3B

Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
0.0000	0.0039	0.0000	0.1000	A1
0.0314	0.0354	0.8000	0.9000	A2
0.0098	0.0157	0.2500	0.4000	b

Soldering Footprint





ESD6V2D3B

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