



1. Features

- IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (Contact), $\pm 30\text{kV}$ (Air)
- 500 Watts peak pulse power ($t_p = 8/20\mu\text{s}$)
- Low reverse clamping voltage
- RoHS compliant with Halogen-free
- Low clamping voltage
- Working voltages : 5V

2. Application

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

- SOD-323 package
- Flammability Rating: UL 94V-0
- Packaging: Tape and Reel
- High temperature soldering guaranteed: $260^\circ\text{C}/10\text{s}$
- Reel size: 7 inch

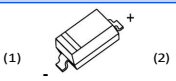
4. Ordering Information

- Material: Halogen free
- Packing: Tape & Reel
- Quantity per reel: 3,000pcs

5. Absolute Maximum Rating

Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 30 ± 30	KV
Peak Pulse Power(8/20 μs)	PPP	500	W
Operating Temperature	T_{OPT}	$-55\sim+125$	$^\circ\text{C}^\circ$
Storage Temperature	T_{stg}	$-55\sim+150$	C

6. Pinning information

Pin	Symbol	Description	Simplified outline	Equivalent Circuit	Marking	Package
1	A	Anode			5CS	SOD-323
2	A	Anode				

7. Electrical Characteristics(Tamb=25 °C)

Parameter	Symbols	Condition	Min	Typ	Max	Unit
Reverse Working Voltage	VRWM		—	—	5.0	V
Reverse Breakdown Voltage	VBR	IT=1mA	6.0	—	8.0	V
Reverse Leakage Current	IR	VRWM=5V	—	—	1.0	uA
Clamping Voltage	VC	IPP=1A , tp=8/20us	—	—	8.0	V
		IPP=32A , tp=8/20us	—	—	16	V
Junction Capacitance	CJ	VR =0V ,f=1MHz	—	60	75	pF

8. Typical Characteristics

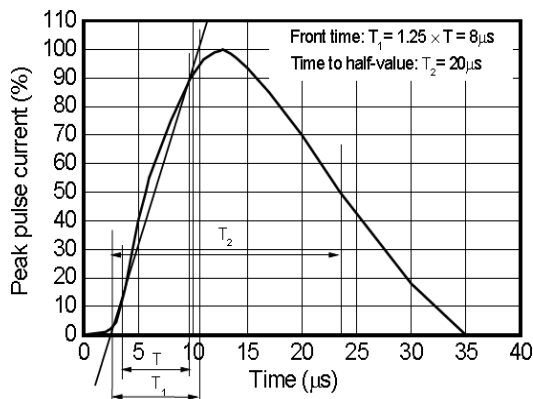


Fig 1 8/20 μs waveform per IEC61000-4-5

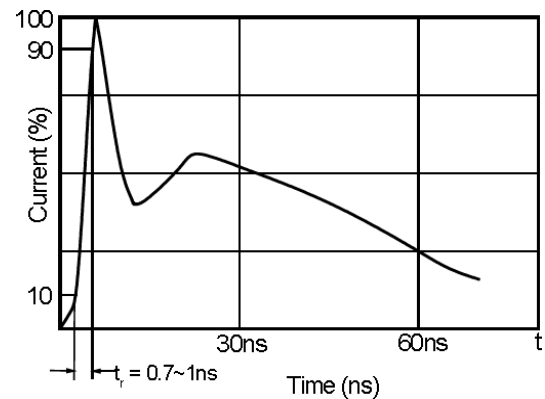


Fig 2 ESD pulse waveform according to IEC61000-4-2

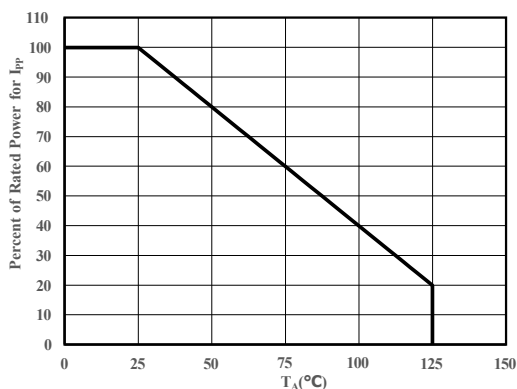


Fig 3 Power Derating Curve

The curve above is for reference only.