

## Features

- Uni-directional ESD protection of one lines
- 350W Peak pulse Power (8/20us)
- Working voltage: 3.3V
- Junction Capacitance: 0.8pF(Typ)
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2  $\pm 10\text{kV}$  contact  $\pm 15\text{kV}$  air
- IEC 61000-4-5 (Lightning) 20A (8/20 $\mu\text{s}$ )
- IEC 61000-4-4 (EFT) 40A (5/50ns)

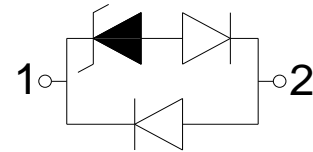
## Applications

- USB 2.0/1.1
- Ethernet 10/100/1000 Mbps
- GPIO
- Audio
- Industrial and Serve Robots
- Laptops and Desktops
- TV and Monitors
- Wearables

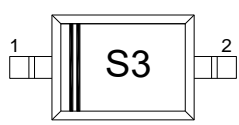
## Mechanical Data

- Package:SOD-323
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

## Schematic & PIN Configuration



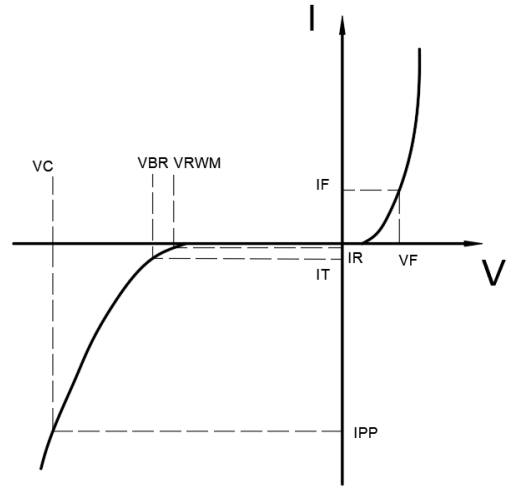
## Ordering Information

Part Number	Package	Marking	Packing	Reel Size
PESD3V3U1UA	SOD-323		3000 Tape & Reel	7 inches

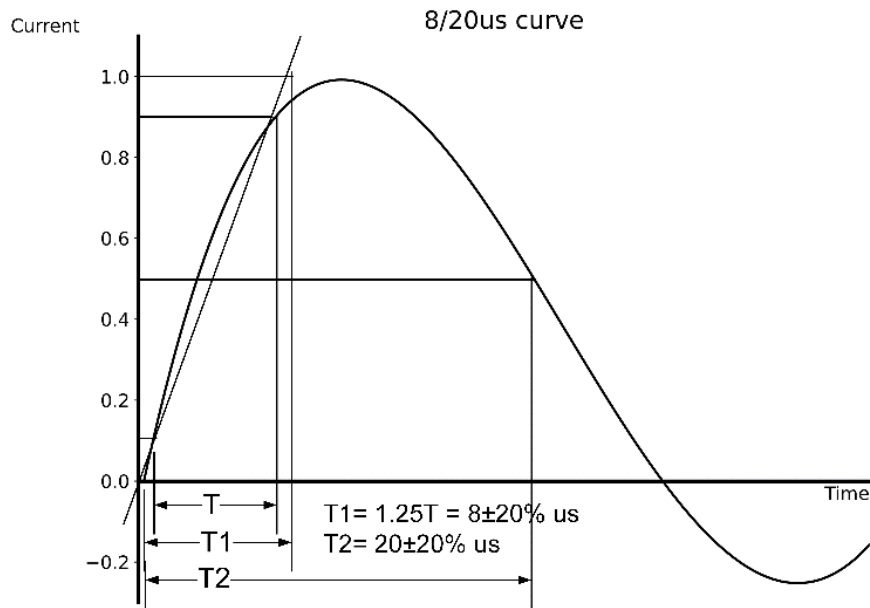




Symbol	Parameters
VRWM	Peak Reverse Working Voltage
IR	Reverse Leakage Current @ VRWM
VBR	Breakdown Voltage @ IT
IT	Test Current
IPP	Maximum Reverse Peak Pulse Current
VC	Clamping Voltage @ IPP
IF	Forward Current
VF	Forward Voltage @ IF

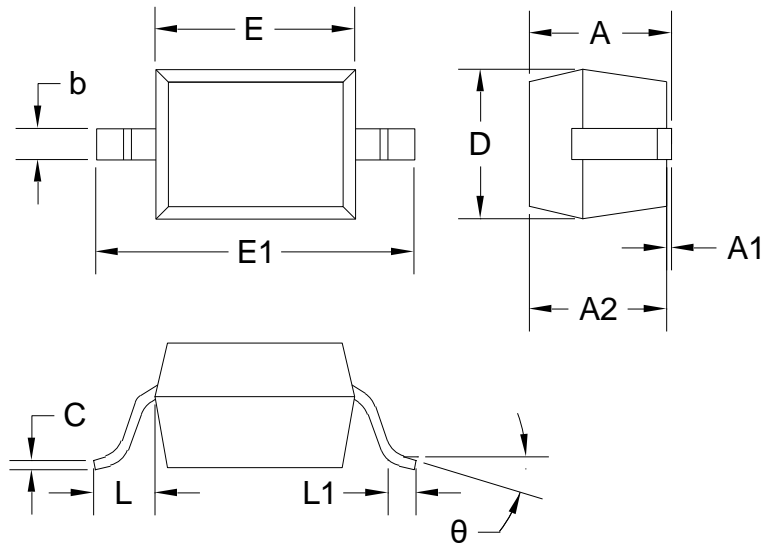


Typical Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise Specified)





Outline Drawing – SOD-323



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
C	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475REF		0.019REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

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