

Surface mount fast recovery rectifiers																																																																																																			
SOD-323  1 2 1 2 1.Cathode 2.Anode Pb RoHS COMPLIANT					Features • Low profile package • Ideal for automated placement • Glass passivated chip junctions • Low forward voltage drop • Low leakage current • High forward surge capability • High temperature soldering: 260°C/10 seconds at terminals • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Mechanical Data • Case: SOD-323 Molding compound meets UL 94 V-0 flammability rating • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Polarity:Laser band denotes cathode end																																																																																														
Major Ratings and Characteristics <table><tr><td>$I_{F(AV)}$</td><td>1.0A</td></tr><tr><td>V_{RRM}</td><td>50V to 1000V</td></tr><tr><td>I_{FSM}</td><td>25A</td></tr><tr><td>t_{rr}</td><td>150nS,250nS,500nS</td></tr><tr><td>V_F</td><td>1.3V</td></tr><tr><td>$T_{Jmax.}$</td><td>150°C</td></tr></table>										$I_{F(AV)}$	1.0A	V_{RRM}	50V to 1000V	I_{FSM}	25A	t_{rr}	150nS,250nS,500nS	V_F	1.3V	$T_{Jmax.}$	150°C																																																																														
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Note1: Mounted on PCB with 0.2x0.2" (5.0mmx5.0mm) copper pad areas 2. Pulsetest: 300μs pulse width, 1% duty																																																																																																			

Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

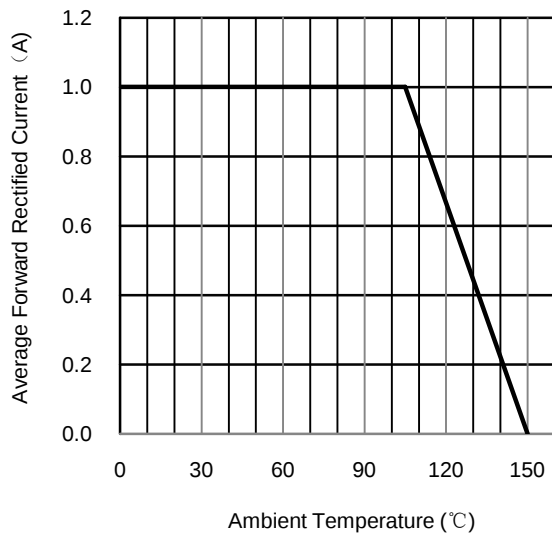


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

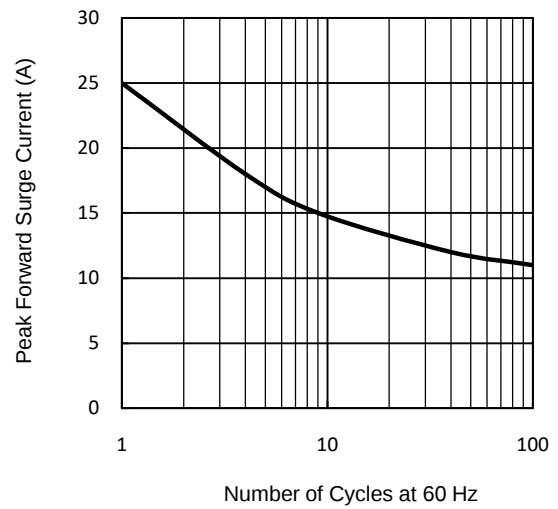


Fig.3 Typical Instantaneous Forward Characteristics

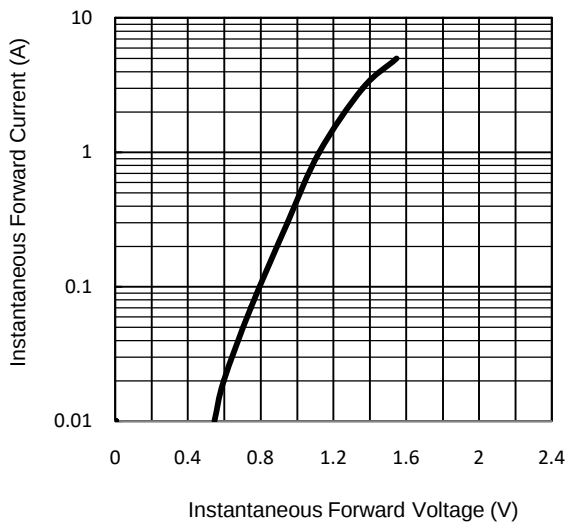
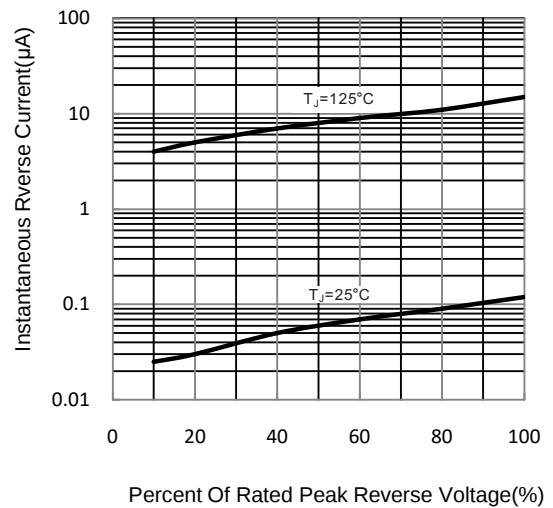
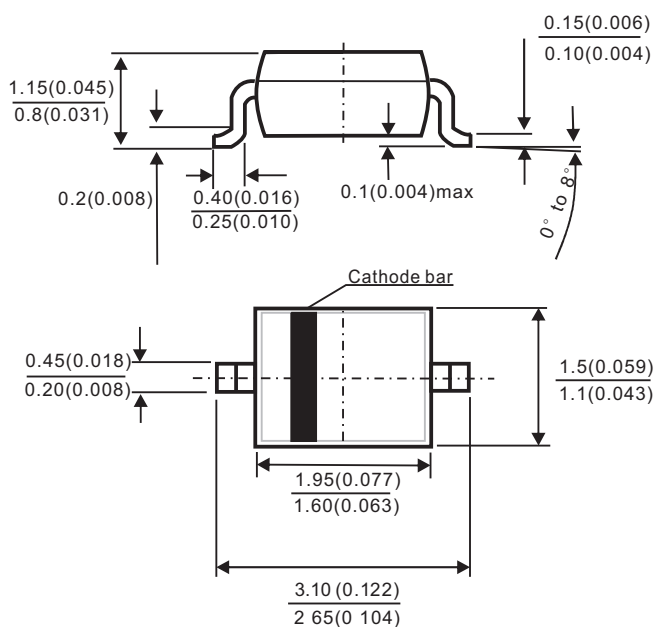


Fig.4 Typical Reverse Characteristics

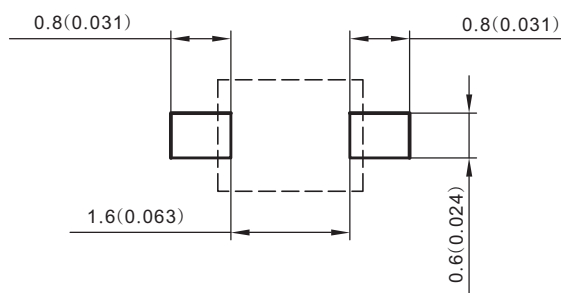


Package Outline

SOD-323



Footprint recommendation:



Package dimensions in millimeters (inches)

Ordering Information

Outline	Reel (PCS)	Per Carton (PCS)	Reel Diameters (mm)
Taping	3,000	240,000	178/7"