

Forward Current - 1 A

FEATURES

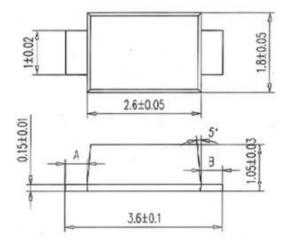
- · For surface mounted applications
- · Low profile package
- · Glass Passivated Chip Junction
- · Ideal for automated placement
- · Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

· Case: SOD-123F

· Terminals: Solderable per MIL-STD-750, Method 2026

· Approx. Weight: 14mg



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	1N4001W	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	V
Maximum RMS voltage	V _{RMS}	35	V
Maximum DC Blocking Voltage	V _{DC}	50	V
Maximum Average Forward Rectified Current at $T_c = 125$ °C	l _{F(AV)}	1	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	25	А
Maximum Instantaneous Forward Voltage at 1 A	VF	1.1	٧
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	IR	5 50	μΑ
Typical Junction Capacitance (1)	Cj	11	pF
Typical Thermal Resistance (2)	Rөja	90	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VD.C

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⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Fig.1 Forward Current Derating Curve

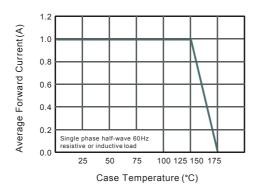


Fig.2 Typical Instaneous Reverse Characteristics

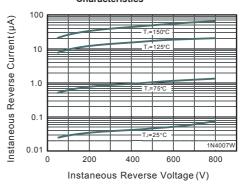


Fig.3 Typical Forward Characteristic

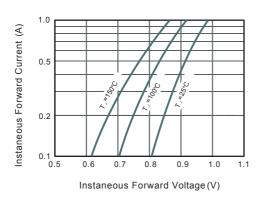


Fig.4 Typical Junction Capacitance

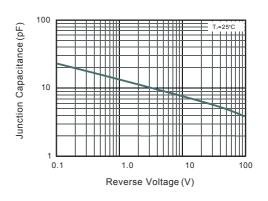
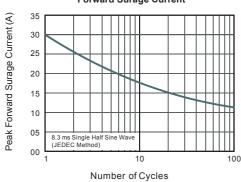


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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