

Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 1000 V

Forward Current - 1 A



FEATURES

- For surface mounted applications
- · Low profile package
- Glass Passivated Chip Junction
- · Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx . Weight: 0.055g / 0.002oz

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	1N4007(M7)SMA	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	٧
Maximum DC Blocking Voltage	V _{DC}	1000	٧
Maximum Average Forward Rectified Current	I _{F(AV)}	1	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30	А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 50	μA
Typical Junction Capacitance (1)	Cj	15	pF
Typical Thermal Resistance (2)	Reja	75	°C/W
Operating and Storage Temperature Range	Tj , Tstg	-55 ~ + 150	°C

^(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽ 2) P.C $.\,B$. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas .



Fig.1 Forward Current Derating Curve

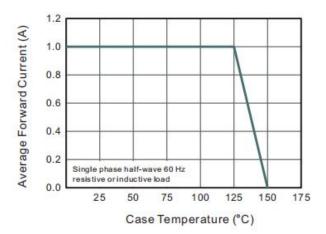


Fig.2 Typical Instaneous Reverse Characteristics

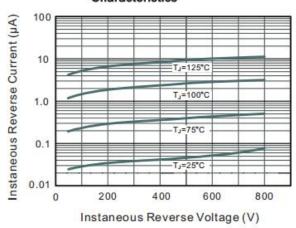


Fig.3 Typical Forward Characteristic

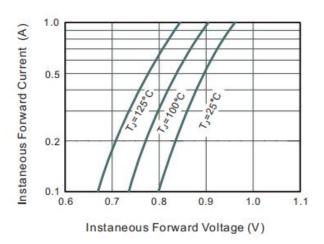


Fig.4 Typical Junction Capacitance

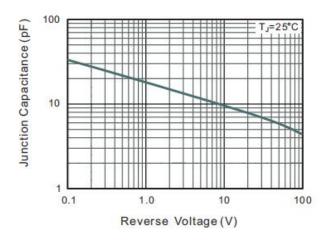
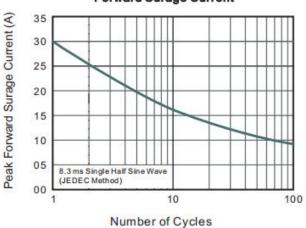


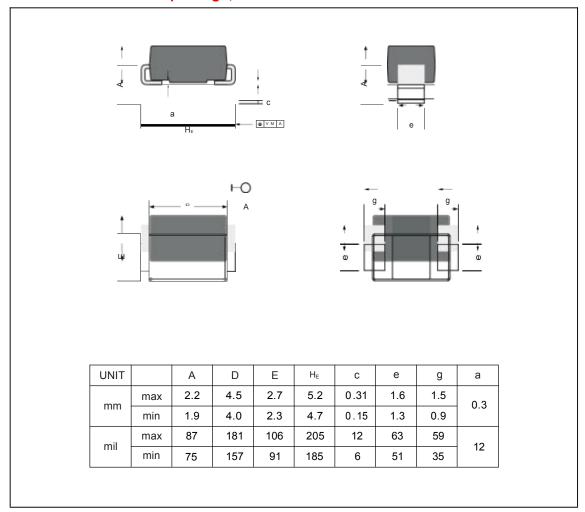
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



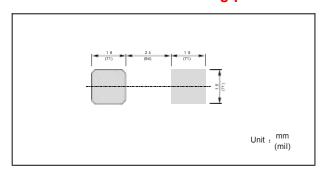


PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size



Marking

Type number	Marking code
1N4007(M7)SMA	M7

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