

# Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 1000 V

Forward Current - 3 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

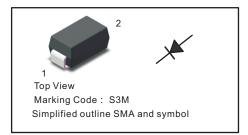
#### **MECHANICAL DATA**

· Case: SMA

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

#### **PINNING**

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



### 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	S3M	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	60	А
Maximum Instantaneous Forward Voltage at 2 A	V <sub>F</sub>	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 <sub>R</sub>	5 100	μA
Operating and Storage Temperature Range	$T_j$ , $T_{stg}$	-55 ~ +150	°C



Fig.1 Forward Current Derating Curve

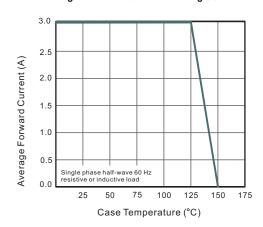
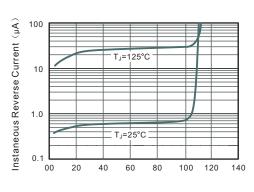


Fig.2 Typical Reverse Characteristics



percent of Rated Peak Reverse Voltage (%)

Fig.3 Typical Forward Characteristic

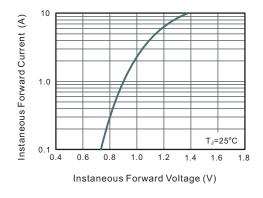
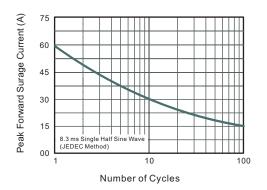


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

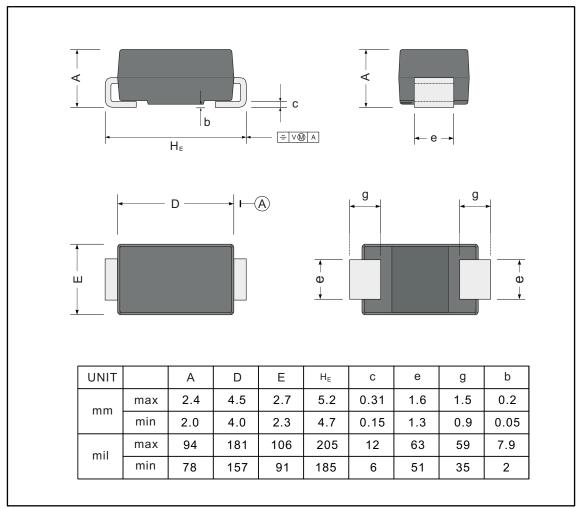




# PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

**SMA** 



## The recommended mounting pad size

