

## Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 50 to 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

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View  
Marking Code: M1~M7  
Simplified outline SMA and symbol

### 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	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>						1		A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>						30		A
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>					1.1			V
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> = 125 °C	I <sub>R</sub>				5	50			µA
Typical Junction Capacitance <sup>(1)</sup>	C <sub>j</sub>				15				pF
Typical Thermal Resistance <sup>(2)</sup>	R <sub>θJA</sub>				75				°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>				-55 ~ +150				°C

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

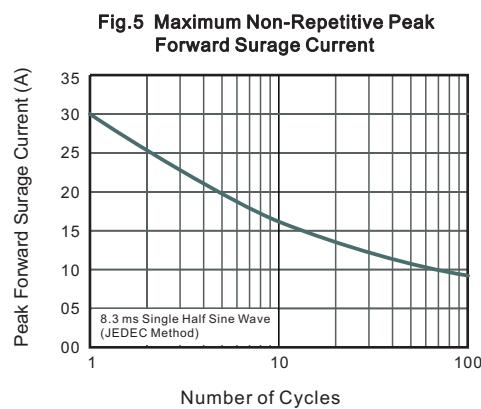
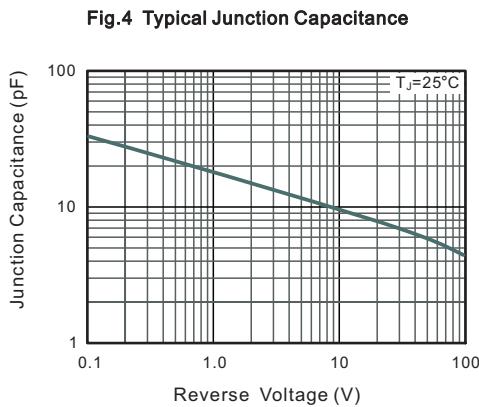
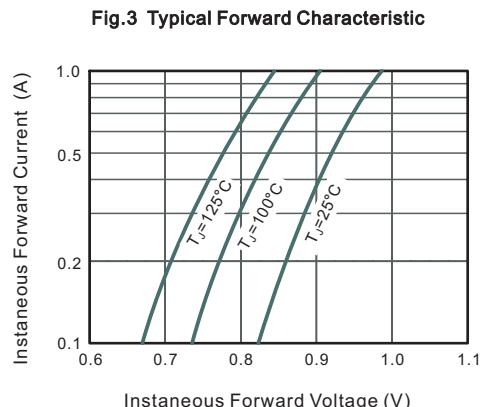
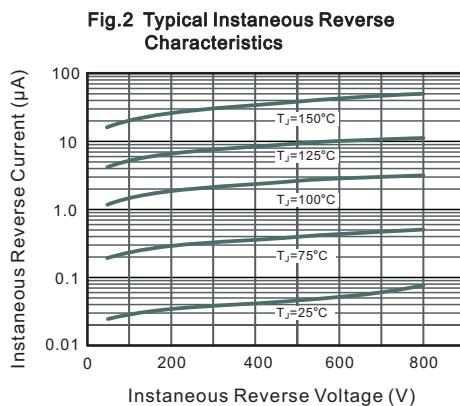
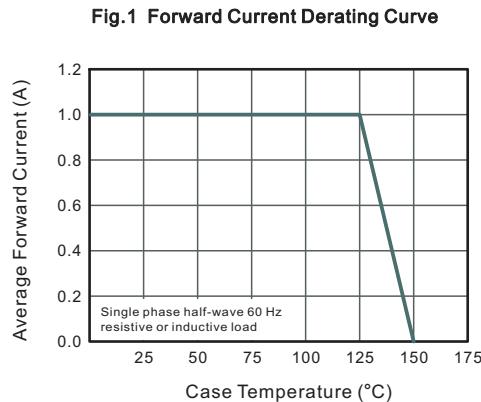
( 2 ) P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

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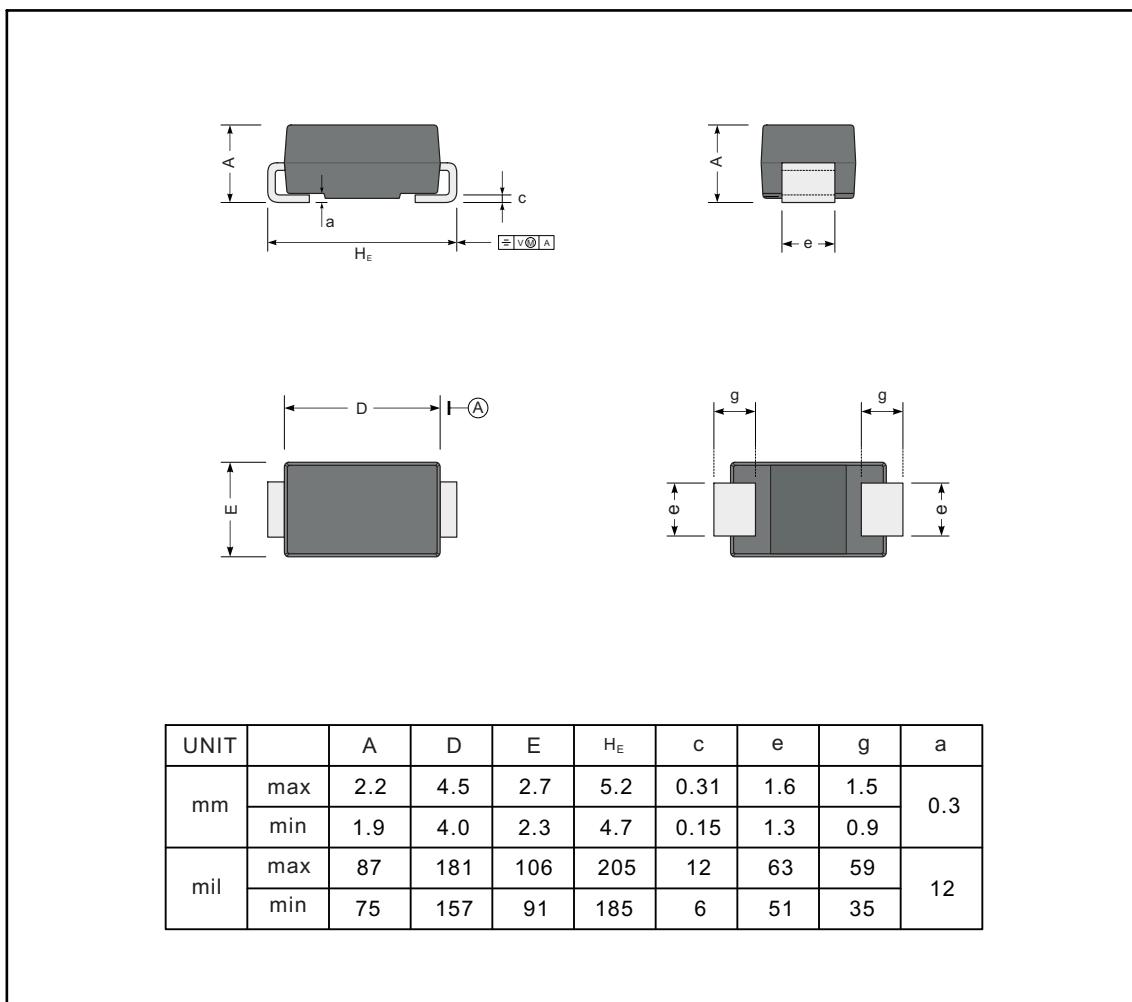
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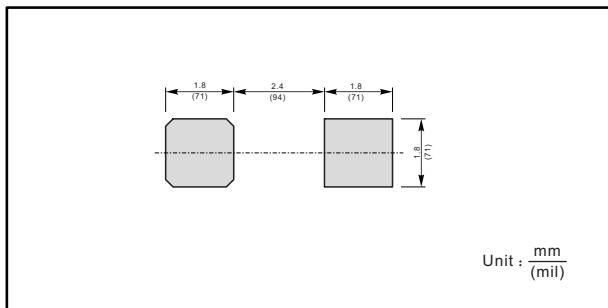
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



### The recommended mounting pad size



### Marking

Type number	Marking code
1N4001G	M1
1N4002G	M2
1N4003G	M3
1N4004G	M4
1N4005G	M5
1N4006G	M6
1N4007G	M7

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