

SURFACE MOUNTGENERAL PURPOSE RECTIFIER

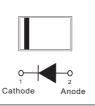
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Plastic package has Underwriters Laboratory Flammability
- Classification 94V-O
- Low Forward Drop
- · High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Junction
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SMA(W) molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 12 mm tape (EIA-481)
- Weight: 0.002 ounces, 0.068 grams



SMA(W) Unit : inch(mm) 0.062(1.60) 0.047(1.20) 0.181(4.60) 0.157(4.00) 0.009(0.22) 0.5 0.5 0.096(2.44) 0.71(1.80) 0.006(0.15) 0.008(0.70) 0.008(0.70) 0.008(0.70) 0.043(1.10) 0.047(1.2) 0.060(1.52) 0.030(0.76) 0.208(5.28) 0.157(4.00)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

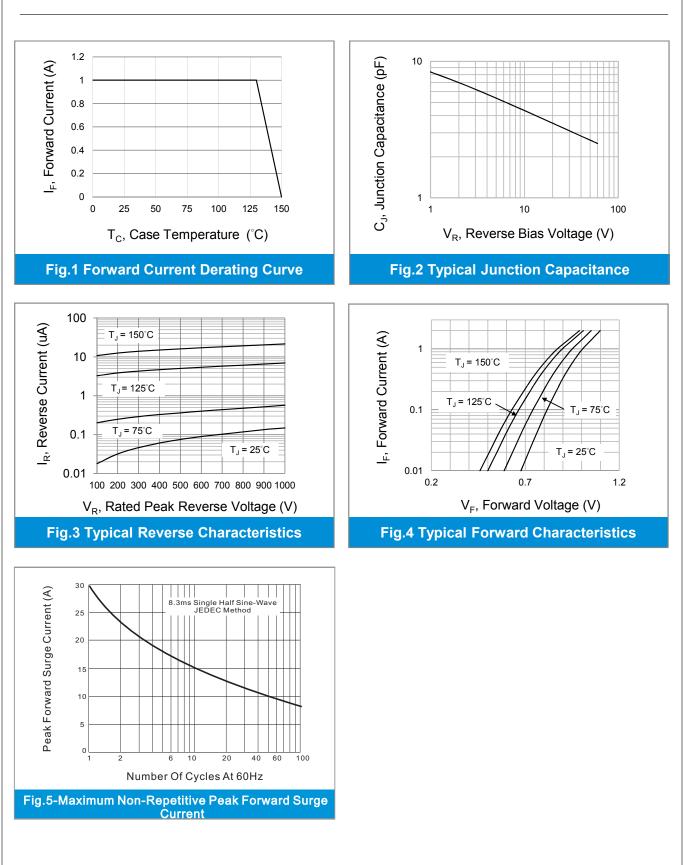
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| PARAMETER | | BOL | GS1AWG | GS1BWG | GS1DWG | GS1GWG | GS1JWG | GS1KWG | GS1MWG | UNITS |
|--|----------|-----|------------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | | RM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | | IS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | | с | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Iaximum Average Forward Current IF(AV) | | | | | 1 | | | | | |
| eak Forward Surge Current : 8.3ms single half sine- ave superimposed on rated load 30 | | | | | | | А | | | |
| Aximum Forward Voltage at 1A DC VF | | | 1.1 | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | | | 1 | | | | | | | μA |
| Typical Junction Capacitance Measured at 1MHz and applied $V_{\mbox{\scriptsize R}}\mbox{=}4V$ | | I | 7 | | | | | | | pF |
| (Not Typical Junction Resistance (Not (Not | e 2) Re. | IL | 150 15 4.4 | | | | | °C / W | | |
| Operating and Storage Temperature Range | | STG | -55 to +150 | | | | | | | °C |

Notes:1.Mounted on a FR4 PCB, single-sided copper, mini pad.

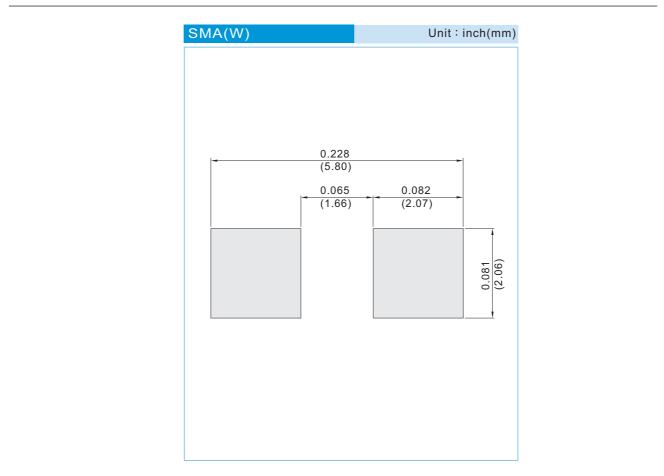
2.Mounted on a FR4 PCB, single-sided copper, with 76.2 x 114.3mm copper pad area. 3.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.







MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel



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