# **GS1A THRU GS1M-HAF**

### SURFACE MOUNT GENERAL RECTIFIER Reverse Voltage - 50 to 1000 V

Forward Current - 1 A

#### Features

- For surface mounted applications
- Low reverse leakage
- · Built-in strain relief, ideal for automated placement
- High forward surge current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Halogen and Antimony Free(HAF), RoHS compliant

#### **Mechanical Data**

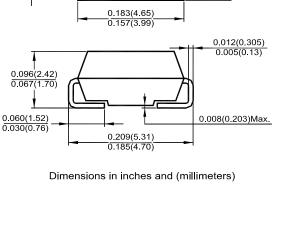
- · Case: SMA (DO-214AC), molded plastic
- **Terminals:** Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode band
- Mounting position: Any

#### **Absolute Maximum Ratings and 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%.

T OF Capacitive load, derate current by 2070.									
Parameter	Symbols	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	Units
Maximum Recurrent 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 at T <sub>L</sub> = 130 °C	I <sub>F(AV)</sub>	1							А
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	I <sub>FSM</sub>	30							А
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1							V
Maximum DCReverse Currentat $T_A = 25 \ ^{\circ}C$ at Rated DC Blocking Voltageat $T_A = 125 \ ^{\circ}C$	I <sub>R</sub>	5 50							μA
Typical Thermal Resistance, Junction to Ambient <sup>1)</sup>	$R_{\theta JA}$	95							°C/W
Typical Thermal Resistance, Junction to Terminal <sup>1)</sup>	R <sub>θJL</sub>	22							°C/W
Operating and Storage Temperature Range	$T_{J,T_{Stg}}$	- 55 to + 150							°C

<sup>1)</sup> P.C.B. mounted with 0.2 x 0.2" ( 5 X 5 mm) copper pad areas.



0.110(2.80) 0.086(2.18)

SMA (DO-214AC)

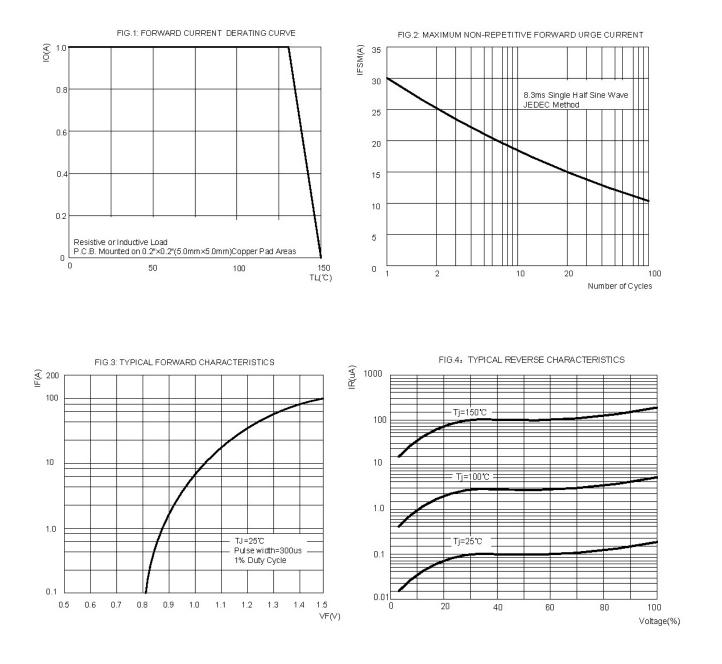
0.067(1.7)



# **TOP DYNAMIC**

Dated : 03/09/2016 YJ Rev:01

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Dated : 03/09/2016 YJ Rev:01