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

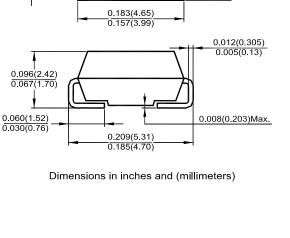
- · Case: SMA (DO-214AC), molded plastic
- **Terminals:** Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode band
- Mounting position: Any

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 _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _L = 130 °C	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3ms 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 DCReverse Currentat $T_A = 25 \ ^{\circ}C$ at Rated DC Blocking Voltageat $T_A = 125 \ ^{\circ}C$	I _R	5 50							μA
Typical Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	95							°C/W
Typical Thermal Resistance, Junction to Terminal ¹⁾	R _{θJL}	22							°C/W
Operating and Storage Temperature Range	$T_{J,T_{Stg}}$	- 55 to + 150							°C

¹⁾ 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)

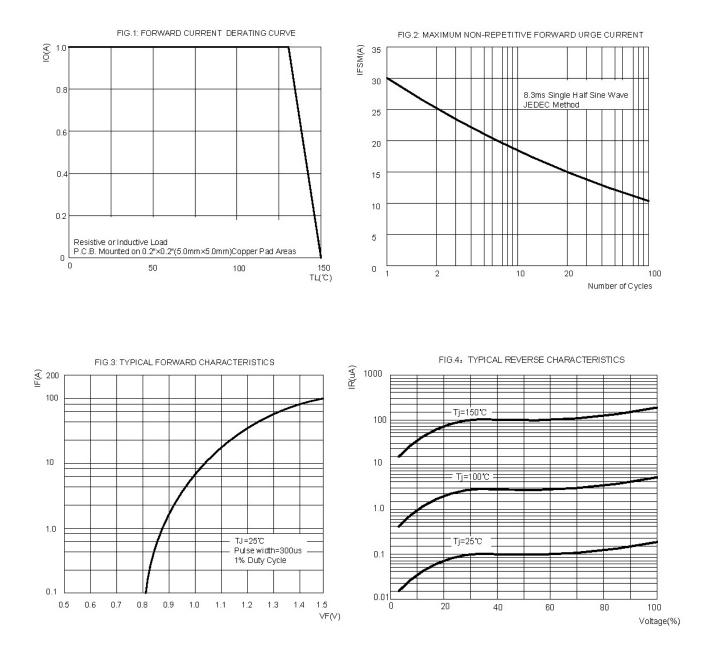
0.067(1.7)



TOP DYNAMIC

Dated : 03/09/2016 YJ Rev:01

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