GS1A THRU GS1M

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

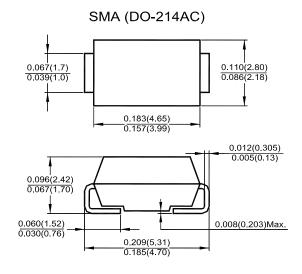
Mechanical Data

• 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



Dimensions in inches and (millimeters)

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, denate current by 20%

For capacitive load, derate current by 20%.									
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 $T_L = 110$ °C	I _(AV)	1							Α
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							А
Maximum Instantaneous Forward Voltage at 1A	V _F	1.1							V
Maximum DC Reverse Current at $T_A = 25$ °C at Rated DC Blocking Voltage at $T_A = 100$ °C	I _R	5 50							μΑ
Typical Junction Capacitance 1)	Сл	15							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	75							°C/W
Operating and Storage Temperature Range	T _J ,T _S	- 65 to+ 175							°C

 $^{^{1)}}$ Measured at 1 MHz and applied VR = 4 V.



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

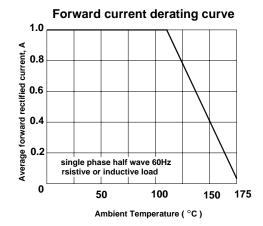


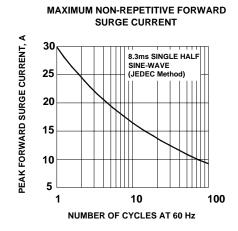


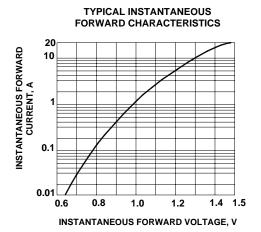


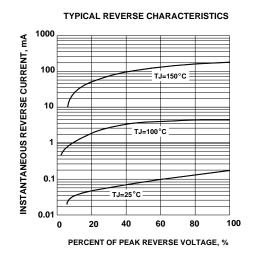
Dated: 14/04/2008

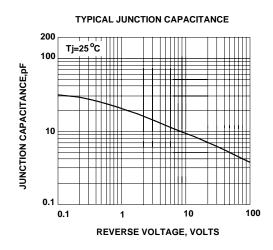
²⁾ P.C.B. mounted with 0.2 x 0.2" (5 X 5 mm) copper pad areas.

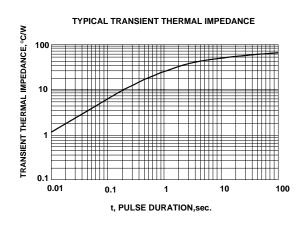














SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)







Dated: 14/04/2008