#### SURFACE MOUNT GENERAL RECTIFIER

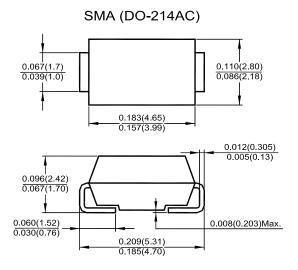
Reverse Voltage - 50 to 1000 V Forward Current - 1 A

#### **Features**

- The plastic package carries UL flammability classification 94V-0
- For surface mounted applications
- · Low reverse leakage
- · Built-in strain relief, ideal for automated placement
- · High forward surge current capability

### **Mechanical Data**

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



Dimensions in inches and (millimeters)

## **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%.

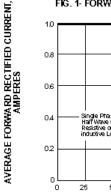
Parameter		Symbol	GF1A	GF1B	GF1D	GF1G	GF1J	GF1K	GF1M	Unit
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		$V_{RMS}$	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage		$V_{DC}$	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at T <sub>L</sub> =110 °C		I <sub>(AV)</sub>	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)		I <sub>FSM</sub>	30						Α	
Maximum Instantaneous Forward Voltage at 1 A		$V_{F}$	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> = 25 °C	l <sub>R</sub>	5							μА
	T <sub>A</sub> = 100 °C		50							
Typical Junction Capacitance 1)		Сл	15						pF	
Typical Thermal Resistance 2)		$R_{\theta JA}$	75							°C/W
Operating Junction and Storage Temperature Range		T <sub>J</sub> , T <sub>stg</sub>	- 65 to + 175							°C

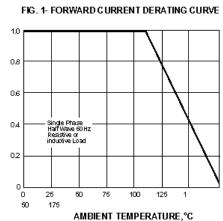
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V.

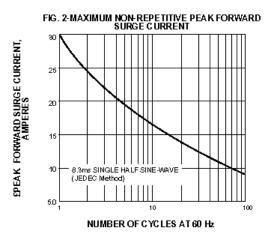


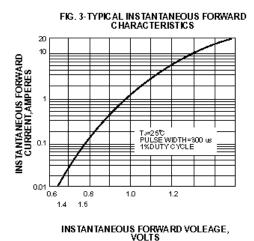


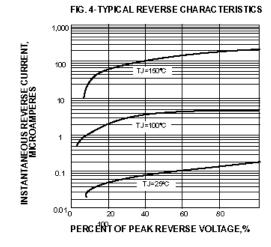
<sup>&</sup>lt;sup>2)</sup> P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

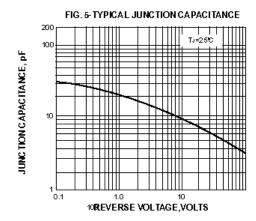


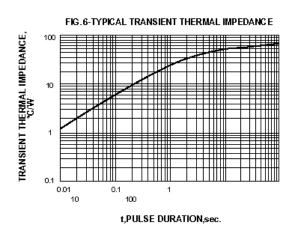














# SEMTECH ELECTRONICS LTD.

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







Dated: 14/04/2008 C