SURFACE MOUNT GENERAL RECTIFIER

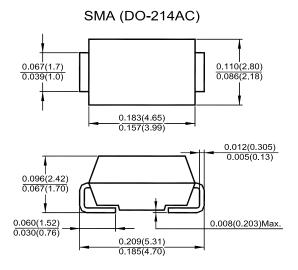
Reverse Voltage - 50 to 1000 V Forward Current - 1 A

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	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 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	30						Α	
Maximum Instantaneous Forward Voltage at 1 A		V_{F}	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 °C	l _R	5							μΑ
	T _A = 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_J , T_{stg}	- 65 to + 175							°C

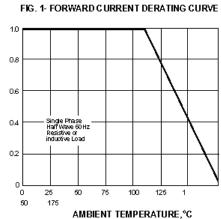
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

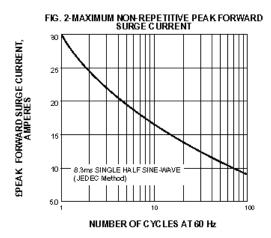


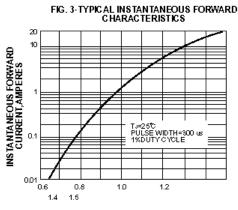


²⁾ P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

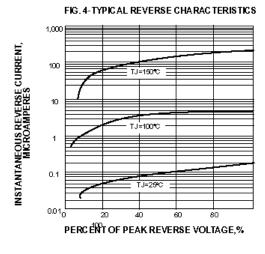


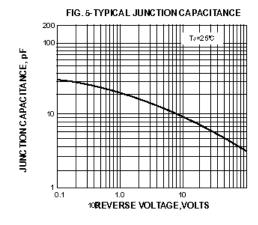


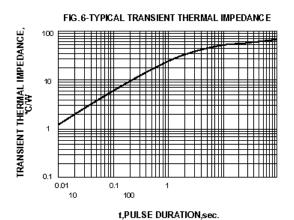














SEMTECH ELECTRONICS LTD.

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