GF1AD THRU GF1MD

Surface Mount General Rectifier

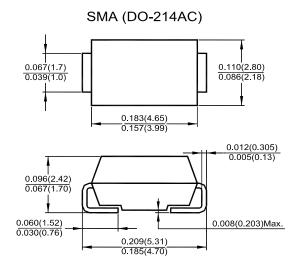
Reverse Voltage - 50 to 1000 V Forward Current - 1 A

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	GF1AD	GF1BD	GF1DD	GF1GD	GF1JD	GF1KD	GF1MD	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 _{F(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 $T_a = 25$ °C Rated DC Blocking Voltage $T_a = 100$ °C	I _R	5 50							μA
Typical Junction Capacitance 1)	C _j	15						pF	
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	75						°C/W	
Operating Junction and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150							°C

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



 $^{^{2)}\,\}text{P.C.B}$ mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

