

GF1650MG

GF 1030IVIG			
16 AMPS. SCHOTTKY BARRIER RECTIFIER	Voltage Range 45 Volts Current 16.0 Amperes		
Features Low forward voltage drop High current capability High reliability High surge current capability Mechanical Data Cases: TO-263 molded plastic Epoxy: UL 94V-O rate flame retardant Terminals: Lead solderable per MIL-STD-202, Method 208 guaranteed Polarity: As marked High temperature soldering guaranteed: 260°C/10 seconds/ .25",(6.35mm) from case	TO-263		
. Weight: 1.70 grams	PIN1 0————————————————————————————————————		

Maximum Ratings and Electrical Characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number		GF1650MG	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	٧
Maximum RMS Voltage	VRMS	35	٧
Maximum DC BI [°] Cking Voltage	VDC	50	٧
Maximum Average Forward Rectified Current See Fig. 1	I(AV)	16.0	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	450	Α
Peak Repetitive Reverse Surge Current (Note 1)	IRRM	1.0	Α
Maximum Instantaneous Forward Voltage at (Note 2) IF=16A, Tc=25°C	VF	0.65	٧
Maximum Instantaneous Reverse Current @ Tj =25℃at Rated DC Blocking Voltage (Note 2) @ Tj =125℃	lR	0.5 50	mA mA
Typical Junction Capacitance (Note 3)	Cj	450	pF
Maximum Thermal Resistance, Junction to Case	R⊕JC	1.0	°C/W
Junction temperature Range At reduced reverse voltage VR≤80 % VRRM VR≤50 % VRRM	TJ	-50 to +150 ≤175 ≤200	°C
Storage Temperature Range	Tstg	-55 to +150	°C

- NOTES: 1. 2.0us Pulse Width, f=1.0 KHz

 - 2. Pulse Test: 300us Pulse Width, 1% Duty Cycle 3. Mounted on Heatsink Size of 2 in x 3 in x 0.25in Al-Plate.

Dimensions in millimeters

RATING AND CHARACTERISTIC CURVES GF1650MG



