

Glass Passivated Bridge Rectifier

Voltage 1000 V Current 20A

Features

- UL recognition file number E228882
- Ideal for printed circuit boards
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: GBJ-1 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.2395 ounces, 6.79 grams

Application

- Desktop/Workstation 80+ Silver & Gold Standard
- Server Power Supply 90+ Platinum & Titanium Standard
- Home Appliances Air Con
- Telecom Power Supply Networking station, data center SMPS
- Industrial Power Supply Street Lighting, Synergy Panels





Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V	
Maximum RMS Voltage	V_{RMS}	700	V	
Maximum DC Blocking Voltage	V _{DC}	1000	V	
Maximum Average Forward Current		I _{F(AV)}	20	Α
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	240 192	Α
Peak Forward Surge Current: 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	480 384	А
I ² t rating for fusing (t = 8.3ms)	I²t	239	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V		Сл	79	pF
Typical Thermal Resistance (Note 2)		Rejc	2.0	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range		Tstg	-55~150	°C

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

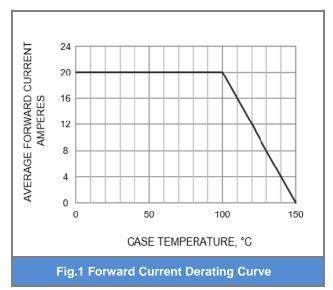
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 10 A, T _J = 25 °C	-	-	1.0	V	
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	5 500 uA	
		V _R = 1000 V,T _J = 125 °C	-	-	500		

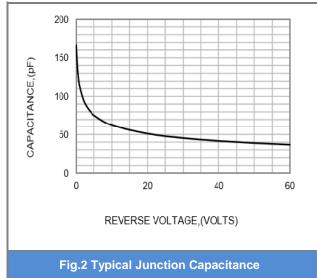
NOTES:

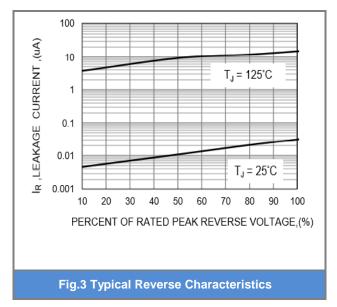
- 1. Mounted on a FR4 PCB standard pad
- 2. Device mounted on 150mm*150mm*1.6mm Cu Plate Heatsink.

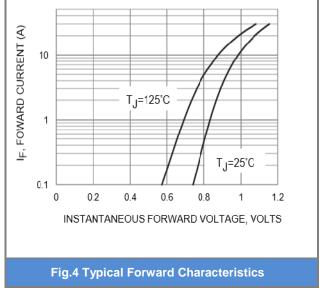


TYPICAL CHARACTERISTIC CURVES







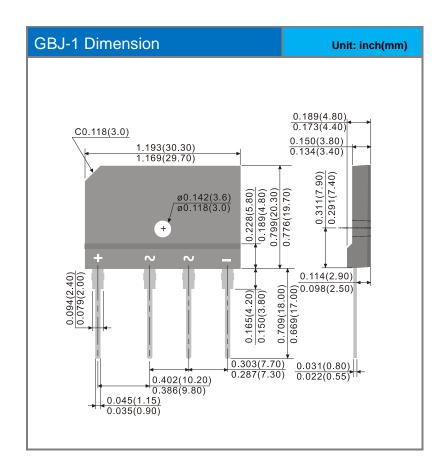




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
GBJ20M_B0_00101	GBJ-1	200 pcs / Box	GBJ20M

Packaging Information





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