

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

50A

Features

• Ideal for printed circuit boards

- UL recognition file number E526209
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case: GBJ-2 Package

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

• Approx. Weight: 6.6972 grams

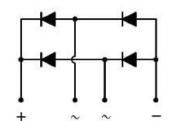
Application

- Computing Power,
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

Key Parameters			
Parameter	Value		
V_{RRM}	1000V		
I _F (AV)	50A		
I _{FSM}	500A		
I _R	5uA		
Package	GBJ-2		

GBJ-2







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	With heatsink		50	_	
	Without heatsink	I _{F(AV)}	4.2	Α	
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		500	А	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	400		
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		1000	_	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	800	Α	
I^2 t rating for fusing (t = 8.3ms)	I²t	1037.5	A ² S		
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	Сл	200	pF		
Typical Thermal Resistance (Note 1)		RθJA	8	°C/W	
		ReJL	2		
		Rejc	2		
Operating junction and storage temperature range		TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

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

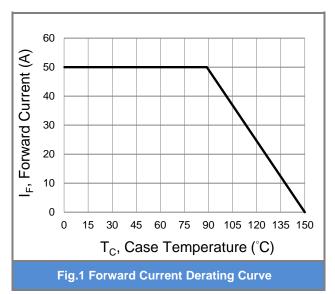
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 25 A, T _J = 25 °C	-	-	1.1	V	
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	uA	
		V _R = 1000 V,T _J = 125 °C	-	-	100		

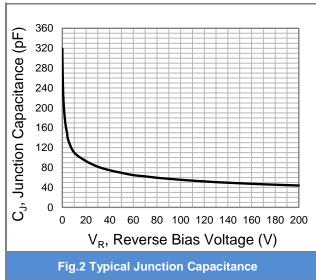
NOTES:

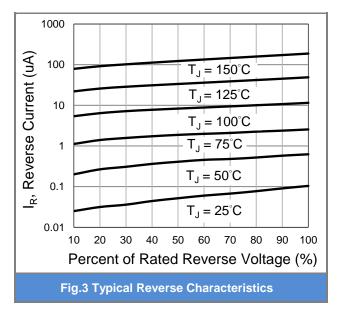
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.

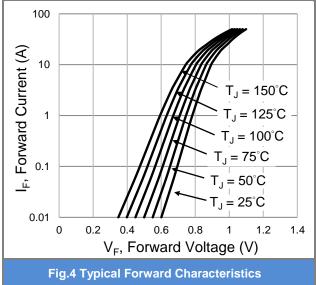


TYPICAL CHARACTERISTIC CURVES







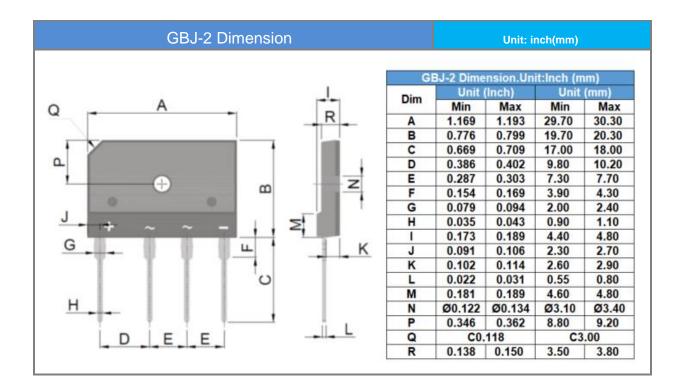




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJ5010	GBJ-2	15 pcs / tube	GBJ5010

Packaging Information





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