

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

20A

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

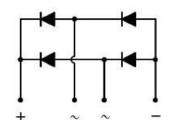
Application

- 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)	20A		
I _{FSM}	260A		
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		20	А	
	Without heatsink	I _{F(AV)}	3.9		
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		260	_	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	208	A	
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		470	А	
Single Half Square -Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	380		
I ² t rating for fusing (t = 8.3ms)	I²t	280	A ² S		
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \ V_R$	C₁	85	pF		
	Reja	8	°C/W		
Typical Thermal Resistance (Note 1)		ReJL			2
		ReJC			2
Operating junction and storage temperature range		T _J , T _{STG}	-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 = 10 A, T _J = 25 °C	ı	ı	1.05	V	
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5		
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA	

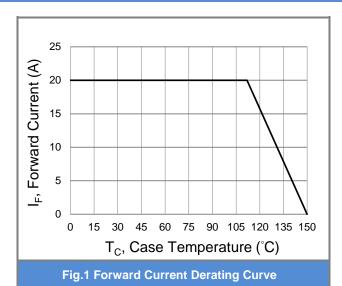
NOTES:

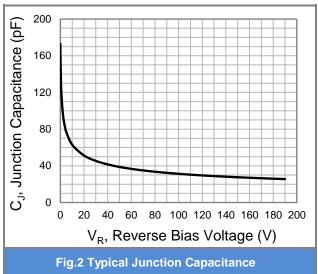
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.

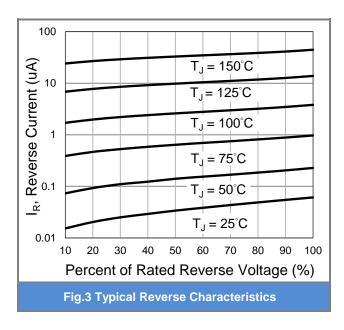
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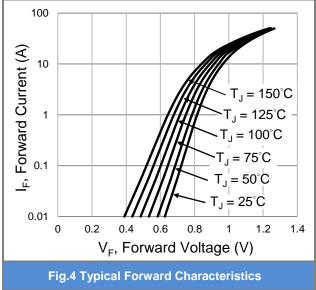


TYPICAL CHARACTERISTIC CURVES







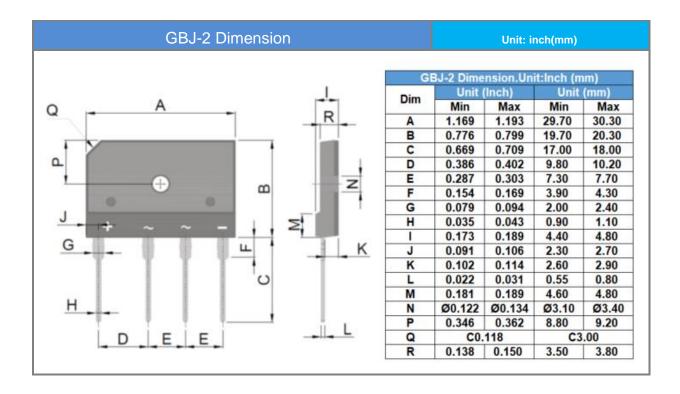




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJ2010	GBJ-2	15 pcs / tube	GBJ2010

Packaging Information



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