

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

10A

Features

• Ideal for printed circuit boards

• 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

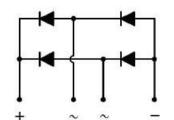
Application

- 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)	10A		
I _{FSM}	220A		
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		10		
	Without heatsink	I _{F(AV)}	3.5	A	
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		220	_	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	176	A	
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		410	А	
Single Half Square -Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	330		
I ² t rating for fusing (t = 8.3ms)		I²t	200.8	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ N}$	CJ	70	pF		
	Reja	8			
Typical Thermal Resistance (Note 1)		Rejl	2	°C/W	
		R _{θJC}	3		
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 = 5 A, T _J = 25 °C	ı	ı	1.05	V	
D	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5		
Reverse Current		V _R = 1000 V,T _J = 125 °C	-	-	100	uA	

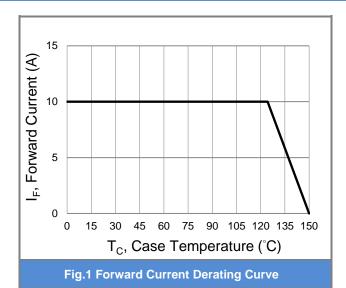
NOTES:

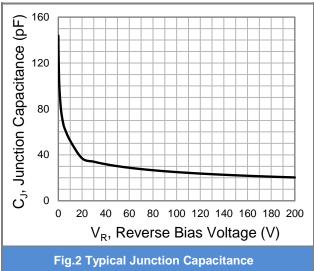
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.

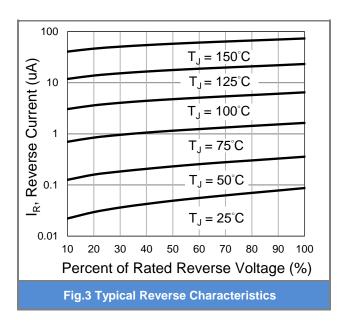
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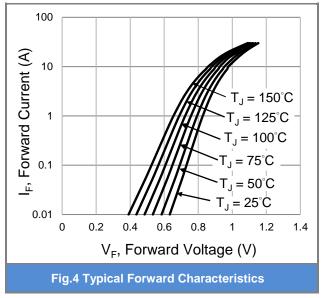


TYPICAL CHARACTERISTIC CURVES







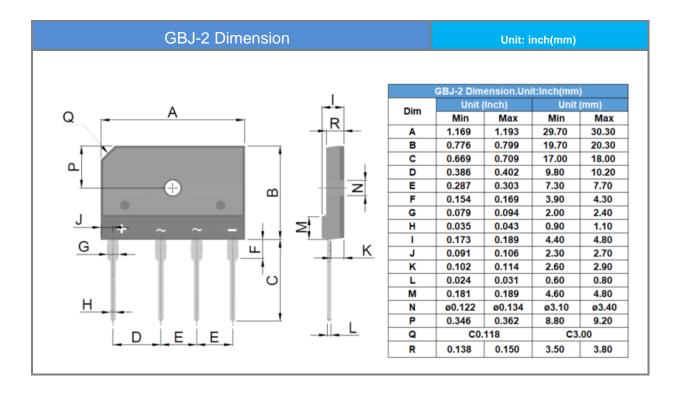




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBJ1010	GBJ-2	15 pcs / tube	GBJ1010

Packaging Information



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