

Glass Passivated Bridge Rectifier

Voltage

1000 V

Features

- Glass passivated chip junction
- Superior thermal conductivity
- 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

Current

35A

HF

• Approx. Weight : 6.6972 grams

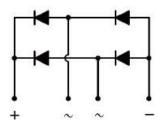
Application

- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I _F (AV)	35A		
I _{FSM}	400A		
I _R	5uA		
TJ max.	175°C		
Package	GBJ-2		

<u>GBJ-2</u>







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

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		Vrrm	1000	V
Maximum RMS Voltage	V _{RMS}	700	V	
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Current	With heatsink		35	
	Without heatsink	IF(AV)	5	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		400	
	@ T _A = 125 °C	IFSM	320	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		800	
	@ T _A = 125 °C	IFSM	640	A
I^2 t rating for fusing (t = 8.3ms)		l ² t	664	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	V	CJ	130	pF
	Reja	5		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	2	°C/W
		R _{ejc}	1	
Operating junction and storage tempera	TJ, Tsтg	-55~175	°C	
Mounting torque @ Recommend torque	Tor	8	Kg.cm	

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I⊧ = 17.5 A, TJ = 25 °C	-	-	1.05	V
Reverse Current	IR	V _R = 1000 V, T _J = 25 °C	-	-	5	•
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

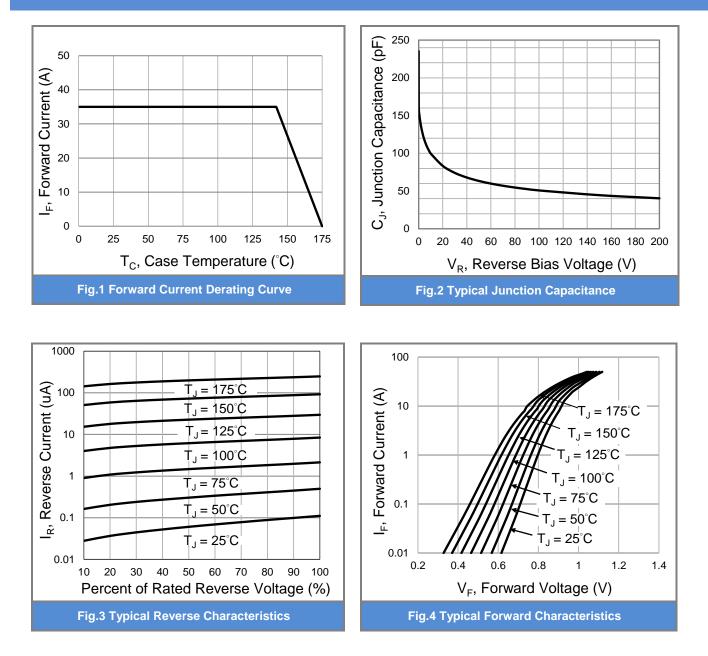
NOTES :

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





TYPICAL CHARACTERISTIC CURVES

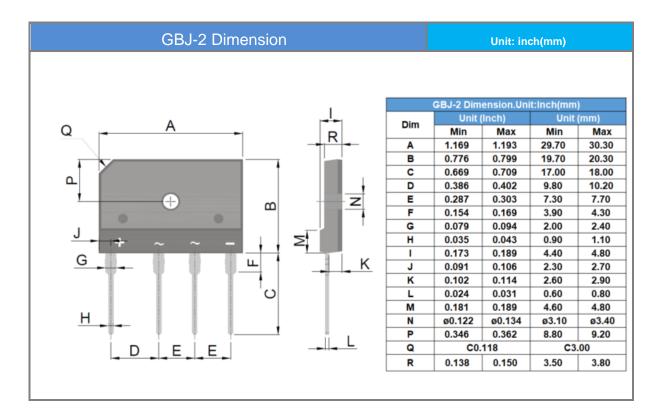




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJ3510H	GBJ-2	15 pcs / tube	GBJ3510H

Packaging Information





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