

## **Glass Passivated Bridge Rectifier**

Voltage

1000 V

Current

25A

HF

### **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

• Approx. Weight: 6.6972 grams

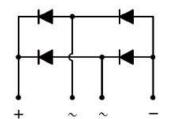
### **Application**

- 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 <sub>F</sub> (AV)	25A		
I <sub>FSM</sub>	350A		
I <sub>R</sub>	5uA		
T₃ max.	175°C		
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 <sub>RRM</sub>	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	700	٧	
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V	
Maximum Average Forward Current	With heatsink		25	
	Without heatsink	I <sub>F(AV)</sub>	5	A
Peak Forward Surge Current: 8.3 ms	@ T <sub>A</sub> = 25 °C		350	
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	280	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C		700	
	@ T <sub>A</sub> = 125 °C	IFSM	560	Α
I <sup>2</sup> t rating for fusing (t = 8.3ms)	I <sup>2</sup> t	508.3	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	Сл	110	pF	
	RθJA	5		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	2	°C/W
		R <sub>eJC</sub>	1	
Operating junction and storage tempera	T <sub>J</sub> , T <sub>STG</sub>	-55~175	°C	
Mounting torque @ Recommend torque	Tor	8	Kg.cm	

# **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 12.5 A, T <sub>J</sub> = 25 °C	ı	ı	1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	-	-	5	
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	100	uA

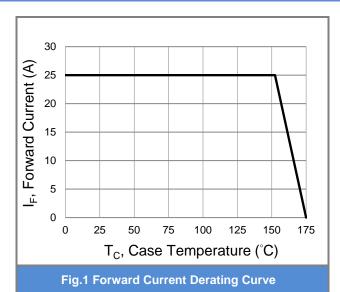
#### NOTES:

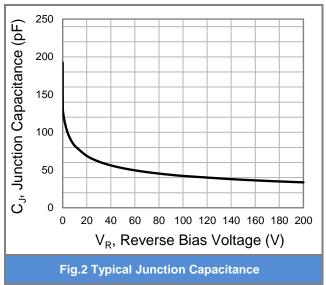
1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink.

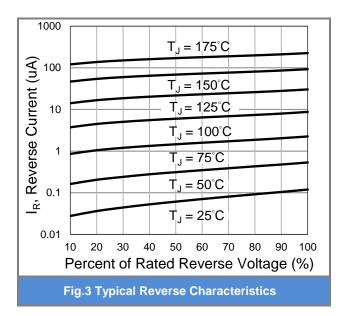
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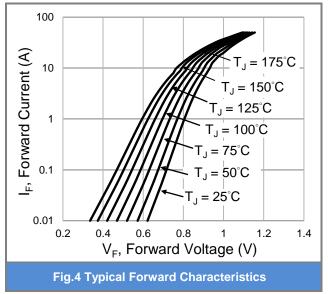


### **TYPICAL CHARACTERISTIC CURVES**







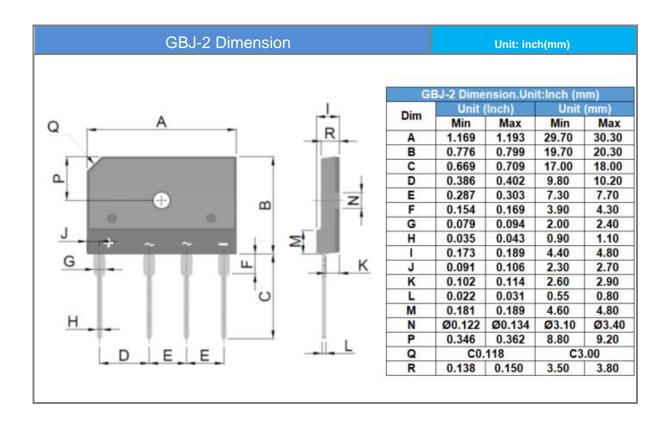




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
GBJ2510H	GBJ-2	15 pcs / tube	GBJ2510H

### **Packaging Information**



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