

**Glass Passivated Bridge Rectifier**

<b>Voltage</b>	<b>1000 V</b>	<b>Current</b>	<b>25A</b>
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**Features**



- Glass passivated chip junction
- Superior thermal conductivity
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

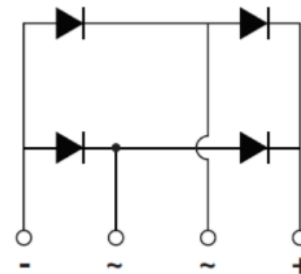
**Mechanical Data**

- Case : GBU-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 3.8348 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

**GBU-2**



<b>Key Parameters</b>	
<b>Parameter</b>	<b>Value</b>
<b><math>V_{RRM}</math></b>	<b>1000V</b>
<b><math>I_F(AV)</math></b>	<b>25A</b>
<b><math>I_{FSM}</math></b>	<b>350A</b>
<b><math>I_R</math></b>	<b>5uA</b>
<b><math>T_J</math> max.</b>	<b>175°C</b>
<b>Package</b>	<b>GBU-2</b>

**Maximum Ratings and Thermal Characteristics** ( $T_A = 25\text{ }^\circ\text{C}$  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	25	A
	Without heatsink	4	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^\circ\text{C}$	350	A
	@ $T_A = 125\text{ }^\circ\text{C}$	280	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^\circ\text{C}$	700	A
	@ $T_A = 125\text{ }^\circ\text{C}$	560	
$I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )	$I^2 t$	508.3	$\text{A}^2\text{S}$
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$	$C_J$	100	pF
Typical Thermal Resistance (Note 1) (with heatsink)	$R_{\theta JA}$	6	$^\circ\text{C/W}$
	$R_{\theta JL}$	3	
	$R_{\theta JC}$	2	
Operating junction and storage temperature range	$T_J, T_{STG}$	-55~175	$^\circ\text{C}$
Mounting torque @ Recommend torque:5Kg.cm	Tor	8	Kg.cm

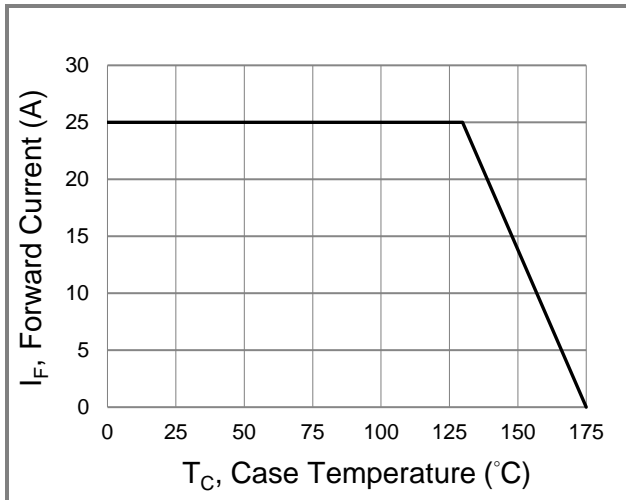
**Electrical Characteristics** ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 12.5\text{ A}, T_J = 25\text{ }^\circ\text{C}$	-	-	1.05	V
Reverse Current	$I_R$	$V_R = 1000\text{ V}, T_J = 25\text{ }^\circ\text{C}$	-	-	5	uA
		$V_R = 1000\text{ V}, T_J = 125\text{ }^\circ\text{C}$	-	-	100	

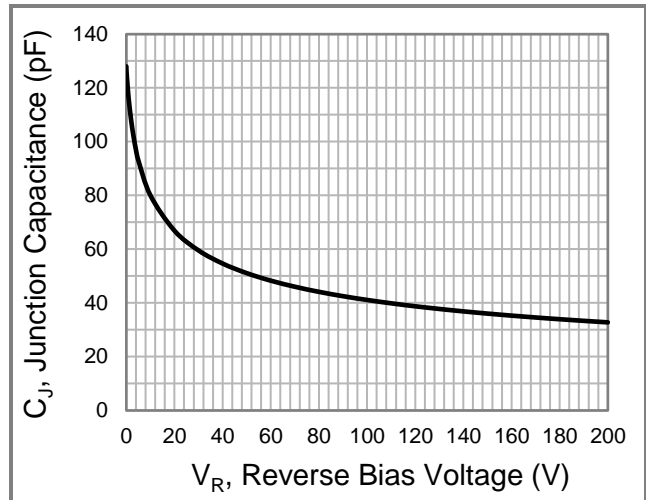
NOTES :

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

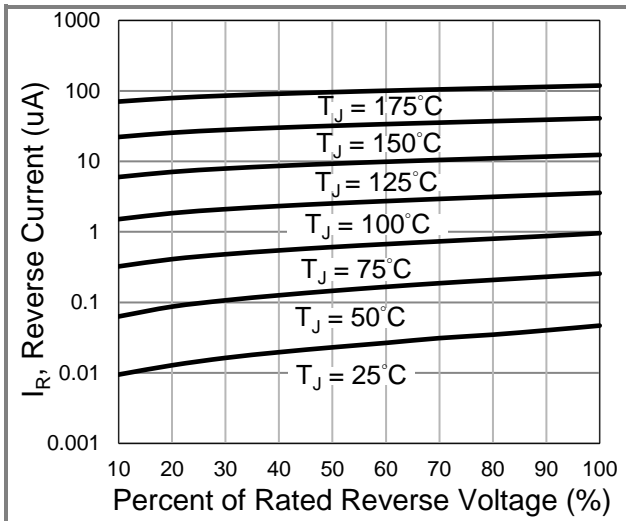
**TYPICAL CHARACTERISTIC CURVES**



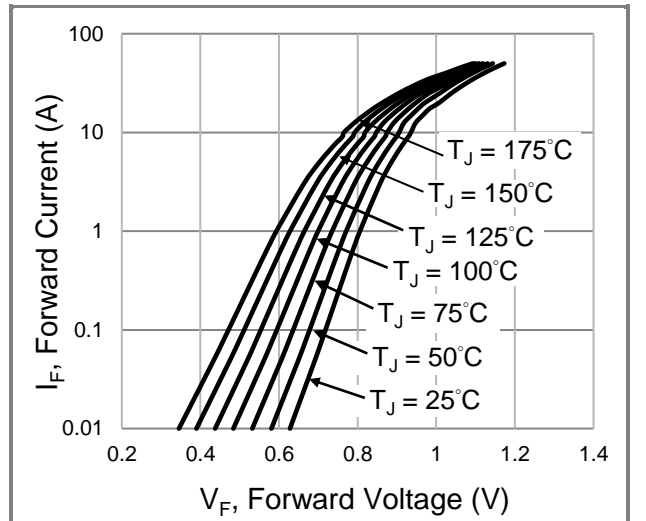
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

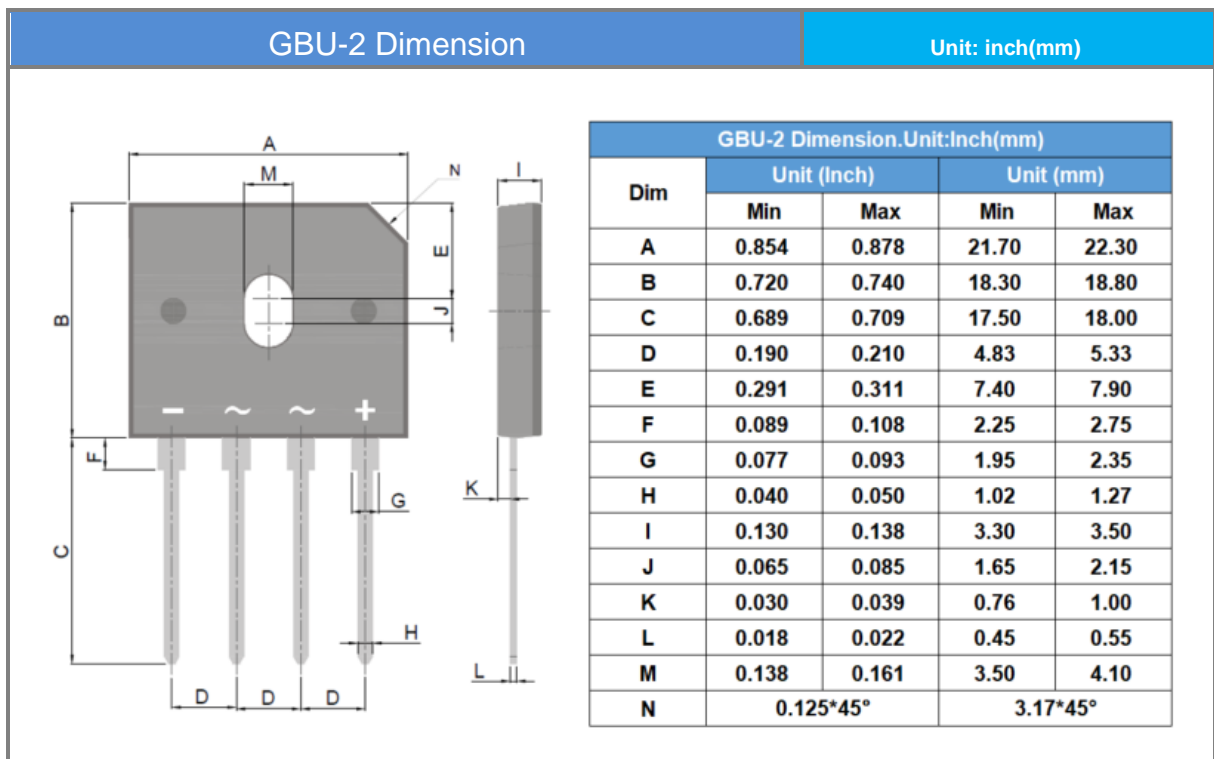


**Fig.4 Typical Forward Characteristics**

**Part No. Marking Code Version**

Approved Part No.	Package Type	Packing Type	Marking
GBU2510H	GBU-2	20 pcs / tube	GBU2510H

**Packaging Information**



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