

## **Glass Passivated Bridge Rectifier**

Voltage

1000 V

Current

15A

### **Features**

• Glass passivated chip junction

- UL recognition file number E526209
- 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: 0.1353 ounces, 3.8348 grams

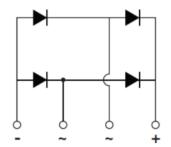
### **Application**

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

Key Parameters			
Parameter	Value		
V <sub>RRM</sub>	1000V		
I <sub>F</sub> (AV)	15A		
I <sub>FSM</sub>	200A		
I <sub>R</sub>	5uA		
Package	GBU-2		

# **GBU-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	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V
Maximum Average Forward Current	With heatsink		15	
	Without heatsink	I <sub>F(AV)</sub>	2.9	A
Peak Forward Surge Current: 8.3 ms	@ T <sub>A</sub> = 25 °C		200	_
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	160	_ A
Peak Forward Surge Current: 1.0 ms	@ T <sub>A</sub> = 25 °C		400	_
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	I <sub>FSM</sub>	320	Α
$I^2$ t rating for fusing ( t = 8.3ms)	l²t	166	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	Сл	65	pF	
	R <sub>0JA</sub>	8		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	4	°C/W
		ReJC	4	
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C
Mounting torque @ Recommend torque:5Kg.cm		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> = 7.5 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

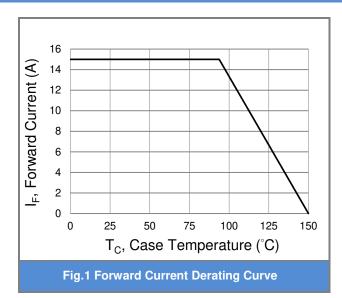
#### NOTES:

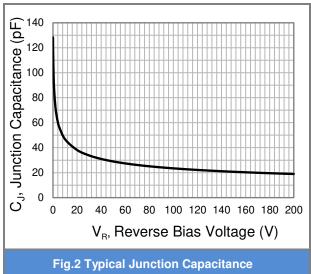
1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink

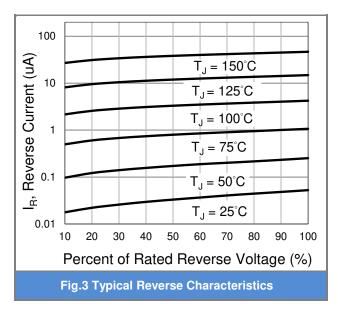
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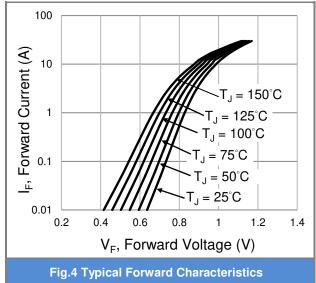


#### **TYPICAL CHARACTERISTIC CURVES**







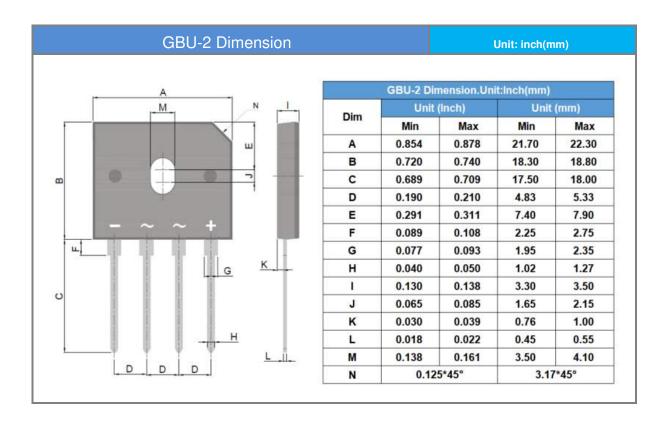




## Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBU1510	GBU-2	20 pcs / tube	GBU1510

## **Packaging Information**



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