

## **Glass Passivated Bridge Rectifier**



1000 V

#### Features

- Ideal for printed circuit boards
- UL recognition file number E526209
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

### **Mechanical Data**

- Case : GBL-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026

Current

**8**A

HF

• Approx. Weight : 2.1759 grams

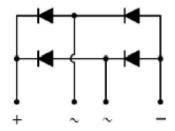
### Application

- Computing Power / Consumer Power
- Game Console Power
- Monitor Power
- Slim Adapter

Key Parameters			
Parameter	Value		
V <sub>RRM</sub>	1000V		
I <sub>F</sub> (AV)	8A		
I <sub>FSM</sub>	200A		
I <sub>R</sub>	5uA		
Package	GBL-2		

<u>GBL-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 <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage		VDC	1000	V
Maximum Average Forward Current	With heatsink		8	
	Without heatsink	IF(AV)	2.7	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 Single Half Square -Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C		380	_
	@ TA = 125 °C	IFSM	310	A
$I^2$ t rating for fusing (t = 8.3ms)		l <sup>2</sup> t	166	A <sup>2</sup> S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	65	pF	
	R⊝jA	18		
Typical Thermal Resistance (Note 1) (	$R_{\theta JL}$	5	°C/W	
		R <sub>θJc</sub>	7	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	Тѕтс	-55~150	°C	

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I <sub>F</sub> = 4 A, T <sub>J</sub> = 25 °C	-	-	1.05	V
Reverse Current	IR	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

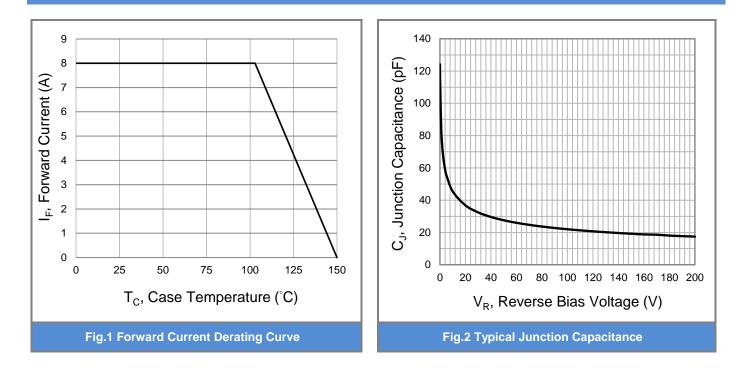
NOTES :

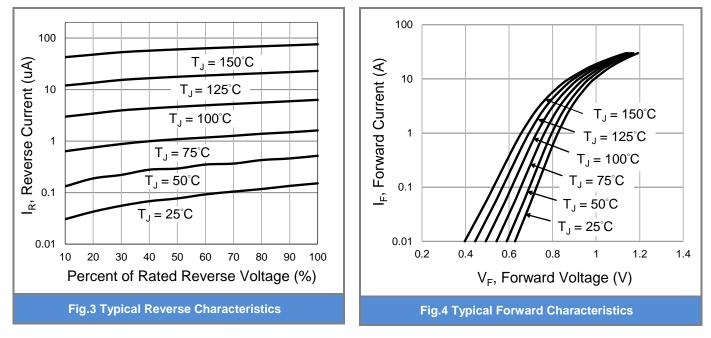
1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink



# **GBL810**

### **TYPICAL CHARACTERISTIC CURVES**



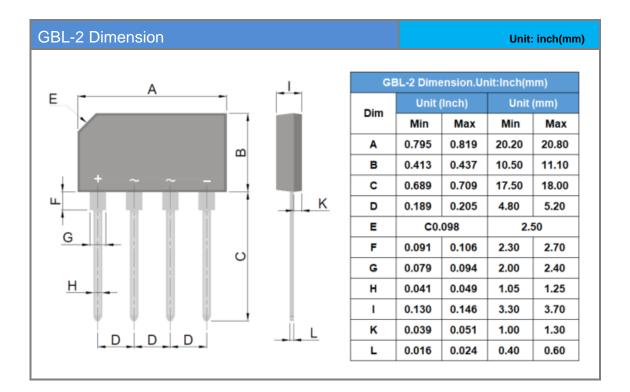




## Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBL810	GBL-2	25pcs / Tube	GBL810

## **Packaging Information**





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