

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

4A

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

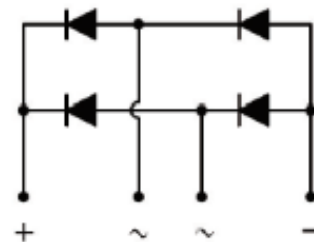
Mechanical Data

- Case : GBL-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 2.1759 grams

Application

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

GBL-2



Key Parameters	
Parameter	Value
V_{RRM}	1000V
$I_F(AV)$	4A
I_{FSM}	150A
I_R	5uA
Package	GBL-2

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	4	A
	Without heatsink	2.1	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^\circ\text{C}$	150	A
	@ $T_A = 125\text{ }^\circ\text{C}$	120	
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^\circ\text{C}$	280	A
	@ $T_A = 125\text{ }^\circ\text{C}$	220	
$I^2 t$ rating for fusing ($t = 8.3\text{ms}$)	$I^2 t$	93.3	A^2S
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$	C_J	50	pF
Typical Thermal Resistance (Note 1) (with heatsink)	$R_{\theta JA}$	25	$^\circ\text{C/W}$
	$R_{\theta JL}$	10	
	$R_{\theta Jc}$	12	
Operating Junction Temperature Range	T_J	-55~150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 2\text{ A}, T_J = 25\text{ }^\circ\text{C}$	-	-	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

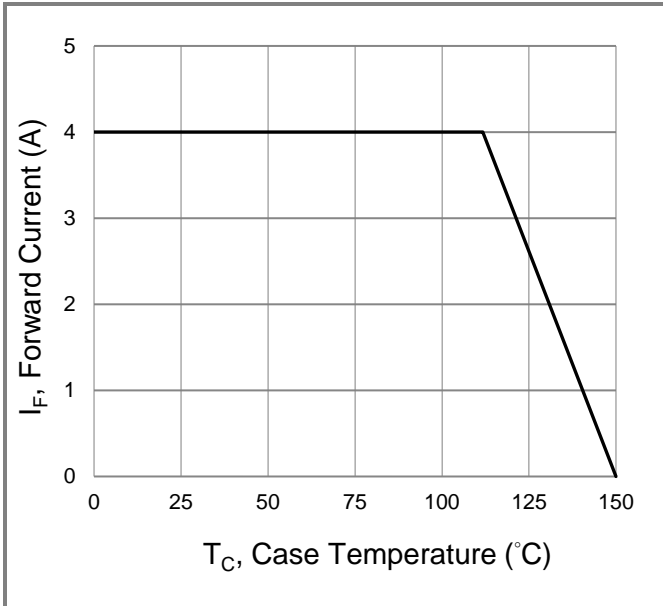


Fig.1 Forward Current Derating Curve

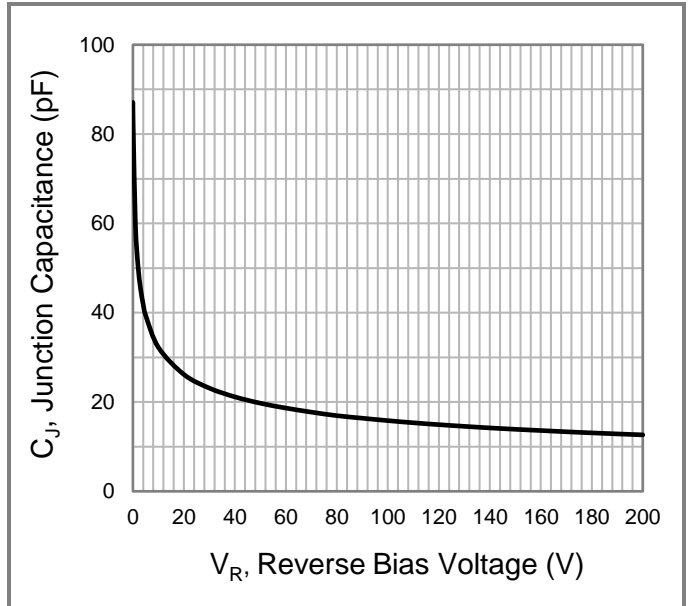


Fig.2 Typical Junction Capacitance

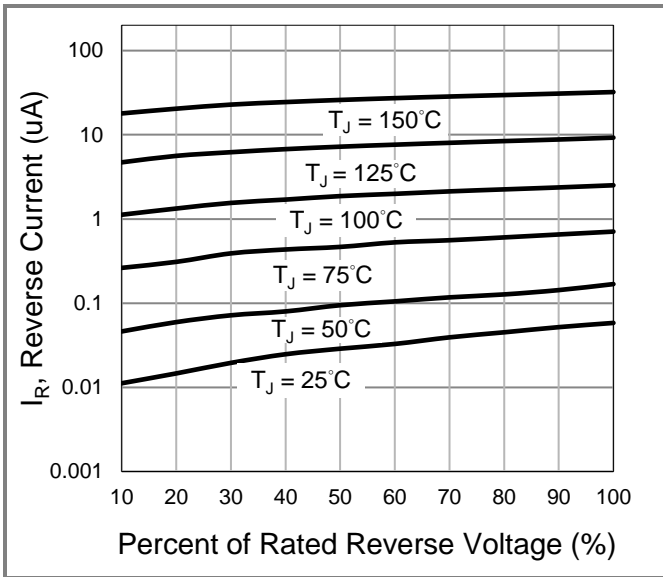


Fig.3 Typical Reverse Characteristics

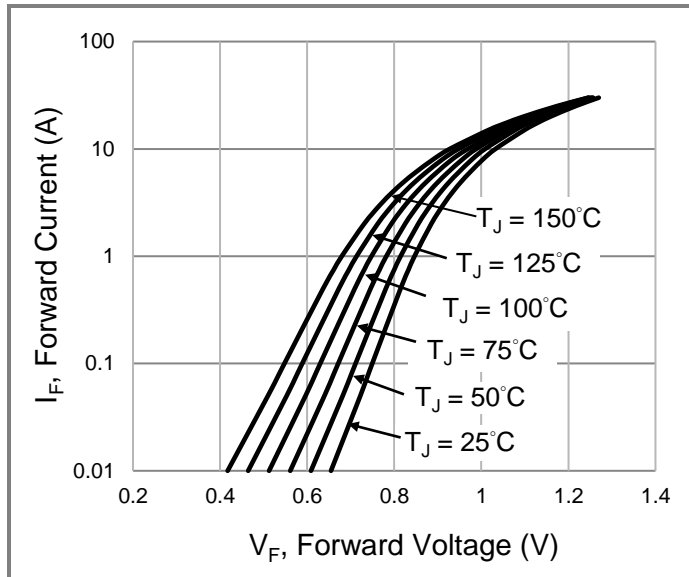
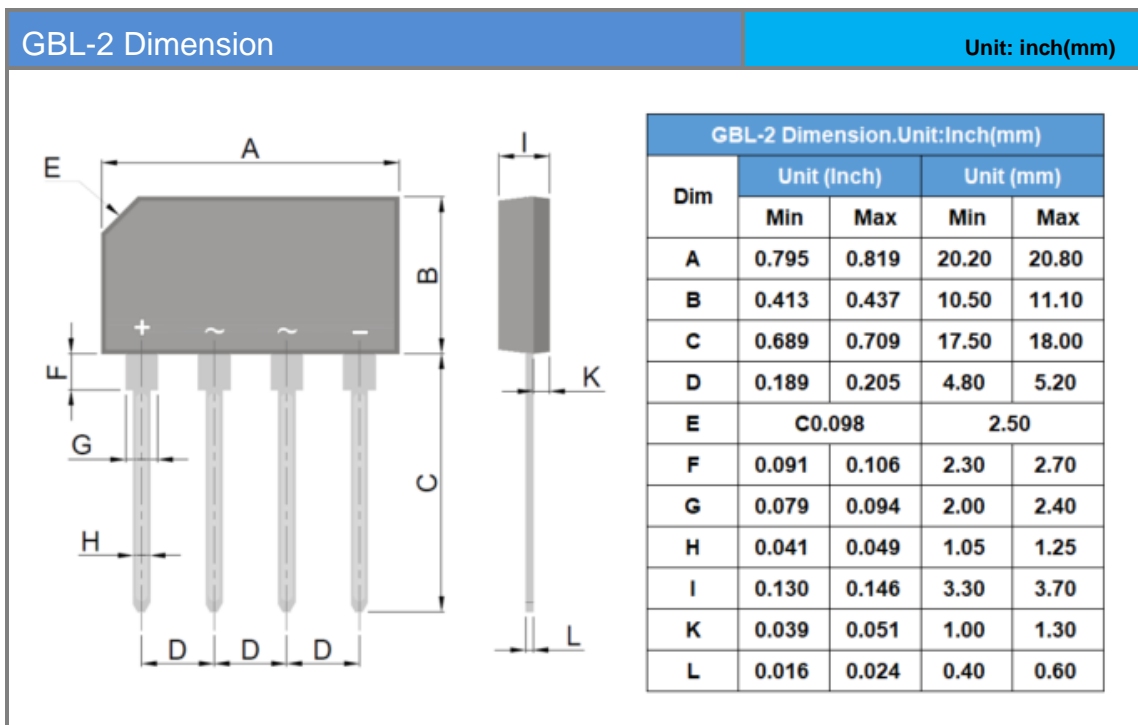


Fig.4 Typical Forward Characteristics

Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBL410	GBL-2	25pcs / Tube	GBL410

Packaging Information



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