

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

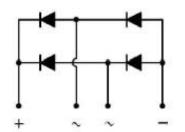
Monitor Power

Slim Adapter

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I _F (AV)	4A		
I _{FSM}	150A		
I _R	5uA		
Package	GBL-2		

GBL-2







Maximum Ratings and Thermal Characteristics ($T_A = 25$ $^{\circ}C$ 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	А	
	Without heatsink	I _{F(AV)}	2.1		
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		150	Α	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	120		
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		280	А	
Single Half Square -Wave Superimposed On Rated Load	@ TA = 125 °C	I _{FSM}	220		
I ² t rating for fusing (t = 8.3ms)	I²t	93.3	A ² S		
Typical Junction Capacitance		0		pF	
Measured at 1 MHZ And Applied V _R = 4 V		CJ	50		
	R⊝jA	25	°C/W		
Typical Thermal Resistance (Note 1) (with heatsink)		$R_{\theta JL}$			10
		ReJc			12
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C		

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

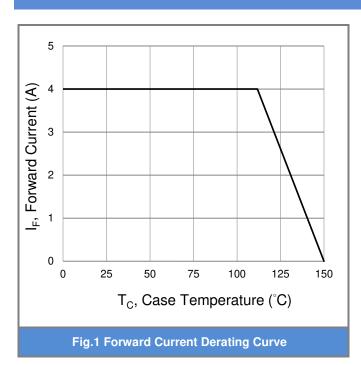
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 2 A, T _J = 25 °C	ı	ı	1.05	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	ı	ı	5	
		V _R = 1000 V,T _J = 125 °C	1	-	100	uA

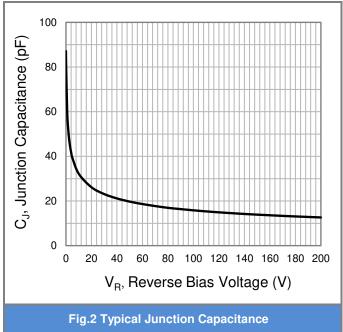
NOTES:

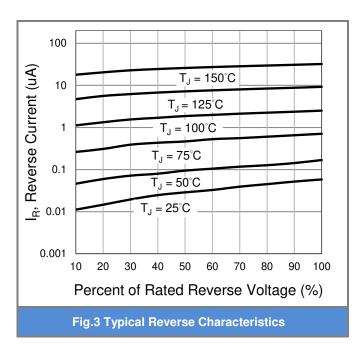
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

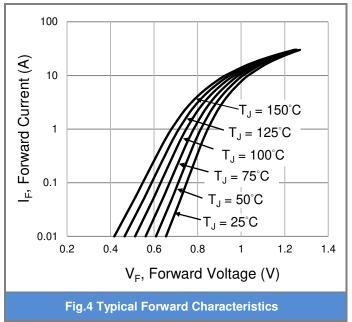


TYPICAL CHARACTERISTIC CURVES







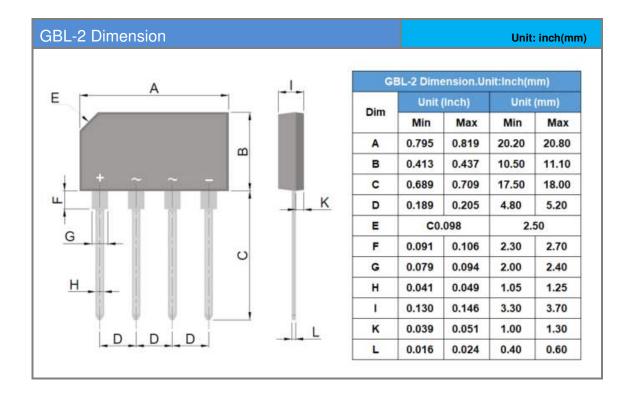




Part No. Marking Code Version

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

Packaging Information





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