

Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

20A

HF

Features

- Glass passivated chip junction
- Low forward voltage drop
- 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

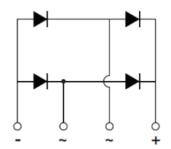
Application

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

Key Parameters			
Parameter	Value		
V _{RRM}	800V		
I _F (AV)	20A		
I _{FSM}	400A		
V _F @125°C,(typ)	0.82V		
I _R	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 _{RRM}	800	V
Maximum RMS Voltage		V _{RMS}	560	V
Maximum DC Blocking Voltage		V _{DC}	800	V
Maximum Average Forward Current	With heatsink		20	
	Without heatsink	I _{F(AV)}	3.5	A
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		400	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	320	_ A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		800	
	@ T _A = 125 °C	IFSM	640	A
I ² t rating for fusing (t = 8.3ms)	I²t	664	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	Сл	140	pF	
	RθJA	5		
Typical Thermal Resistance (Note 1) (with heatsink)		ReJL	3	°C/W
	ReJC	2		
Operating junction and storage temperature range		T _J , T _{STG}	-55~150	°C
Mounting torque @ Recommend torque	Tor	8	Kg.cm	

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Farmer Maltage		I _F = 10 A, T _J = 25 °C	-	ı	0.92		
Forward Voltage	VF	I _F = 10 A, T _J = 125 °C	-	0.82	ı	V	
D		V _R = 800 V, T _J = 25 °C	-	-	5	•	
Reverse Current	IR IR	V _R = 800 V,T _J = 125 °C	-	-	100	uA	

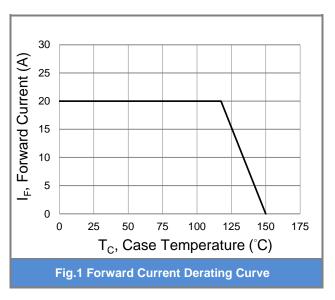
NOTES:

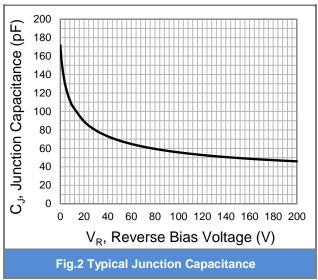
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink .

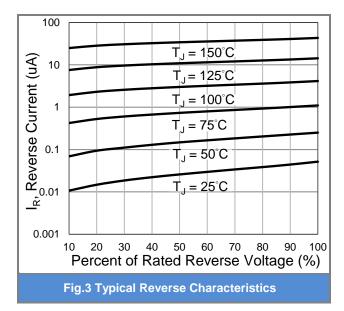
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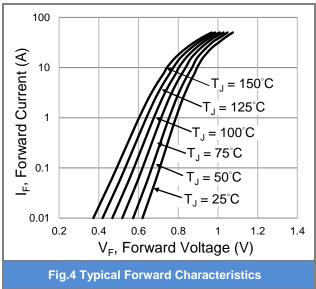


TYPICAL CHARACTERISTIC CURVES







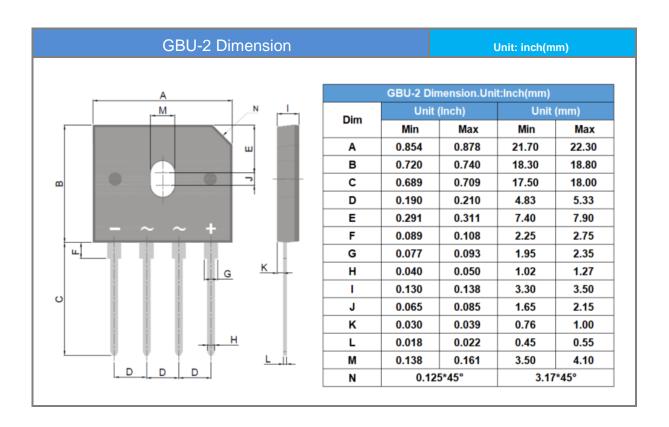




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBU2008LV	GBU-2	20 pcs / tube	GBU2008LV

Packaging Information



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