

Glass Passivated Low VF Bridge Rectifier

Voltage

600 V

Current

25A

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

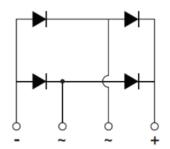
Application

- 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}	600V		
I _F (AV)	25A		
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}	600	V	
Maximum RMS Voltage	V _{RMS}	420	V		
Maximum DC Blocking Voltage		V _{DC}	600	V	
Maximum Average Forward Current	With heatsink		25		
	Without heatsink	I _{F(AV)}	3.1	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	IFSM	320	A	
Peak Forward Surge Current: 1.0 ms	@ T _A = 25 °C		800	А	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	640		
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	165	pF		
	Reja	6			
Typical Thermal Resistance (Note 1)	ReJL	3	°C/W		
		R _{θJC}	2		
Operating junction and storage tempera	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	
Forward Voltage	VF	I _F = 12.5 A, T _J = 25 °C	-	-	0.98	V	
		I _F = 12.5 A, T _J = 125 °C	-	0.82	-		
Reverse Current	I _R	V _R = 600 V, T _J = 25 °C	-	-	5	•	
		V _R = 600 V,T _J = 125 °C	-	-	100	uA	

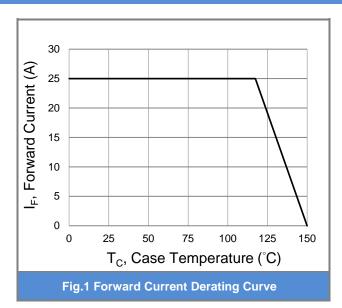
NOTES:

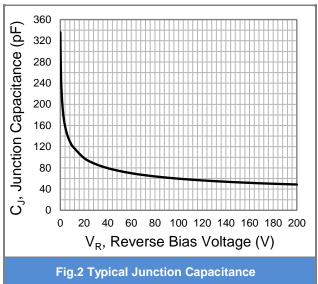
1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink .

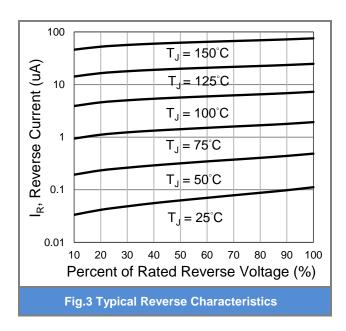
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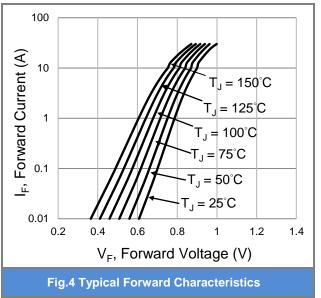


TYPICAL CHARACTERISTIC CURVES







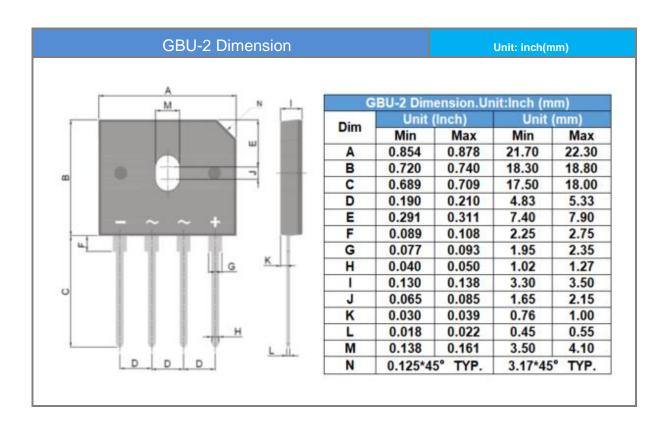




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBU2506LV	GBU-2	20 pcs / tube	GBU2506LV

Packaging Information



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