

Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

25A

Features

• Glass passivated chip junction

- UL recognition file number E526209
- Low forward voltage drop
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case : GBJ-2 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 6.6972 grams

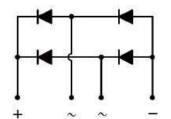
Application

- Computing Power,
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

Key Parameters			
Parameter	Value		
V_{RRM}	800V		
I _F (AV)	25A		
I _{FSM}	500A		
V _F @125°C,(typ)	0.82V		
I _R	5uA		
Package	GBJ-2		

GBJ-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		25	А	
	Without heatsink	I _{F(AV)}	4		
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		500		
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	400	A	
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		1000	А	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	800		
I ² t rating for fusing (t = 8.3ms)		I²t	1038	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$	1	C₁	200	pF	
	Reja	8	°C/W		
Typical Thermal Resistance (Note 1)		ReJL			2
		R _{eJC}			2
Operating junction and storage temperatu	T _J , T _{STG}	-55~150	°C		
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

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

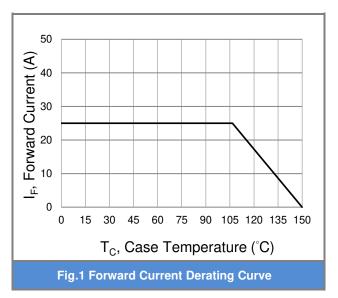
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 12.5 A, T _J = 25 °C	ı	ı	0.94	
		I _F = 12.5 A, T _J = 125 °C	ı	0.82	ı	V
Reverse Current	I _R	V _R = 800 V, T _J = 25 °C	-	-	5	•
		V _R = 800 V,T _J = 125 °C	-	-	100	uA

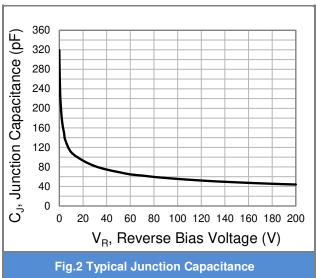
NOTES:

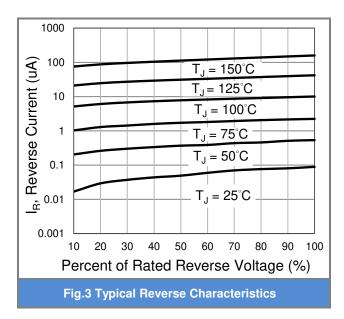
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.

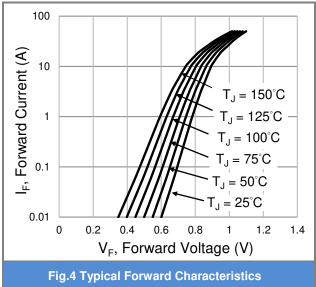


TYPICAL CHARACTERISTIC CURVES







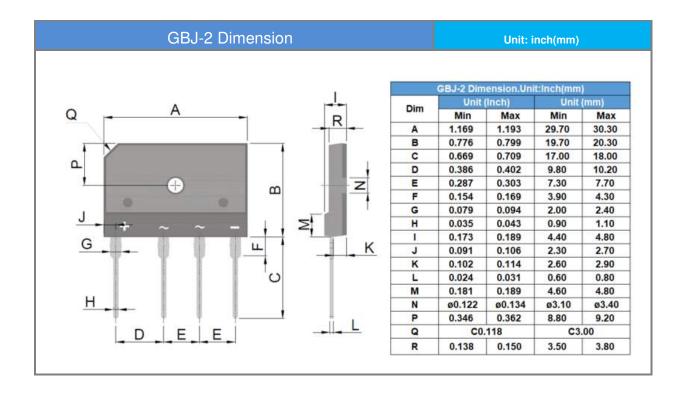




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBJ2508LV	GBJ-2	15 pcs / tube	GBJ2508LV

Packaging Information





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