

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

15A

Features

• Ideal for printed circuit boards

• 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

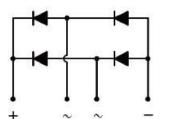
• Home Appliances Power Board

TV Power

Key Parameters			
Parameter	Value		
V_{RRM}	1000V		
I _F (AV)	15A		
I _{FSM}	240A		
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}	1000	V
Maximum RMS Voltage		V_{RMS}	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Current	With heatsink		15	А
	Without heatsink	I _{F(AV)}	3.8	
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		240	А
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	192	
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		450	А
Single Half Square-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	360	
I ² t rating for fusing (t = 8.3ms)		I²t	239	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	Сл	75	pF	
		Reja	8	
Typical Thermal Resistance (Note 1)	ReJL	2	°C/W	
	R _{θJC}	2		
Operating junction and storage temperature range		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	V _F	I _F = 7.5 A, T _J = 25 °C	ı	ı	1.05	V	
Reverse Current	IR	V _R = 1000 V, T _J = 25 °C	-	-	5		
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA	

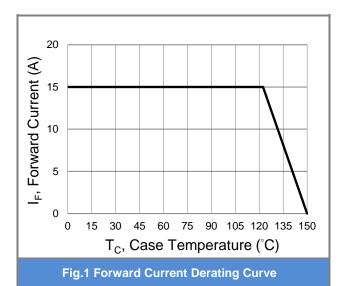
NOTES:

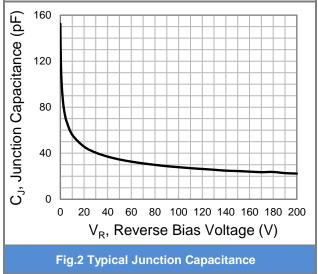
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.

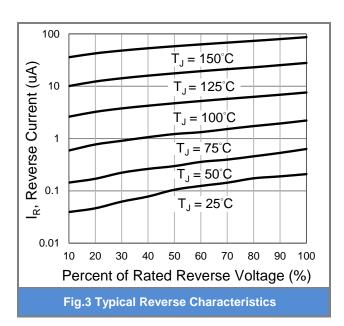
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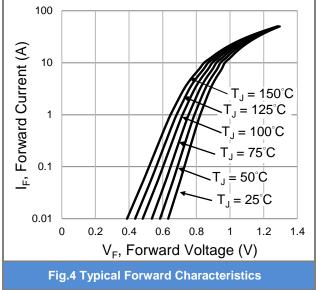


TYPICAL CHARACTERISTIC CURVES







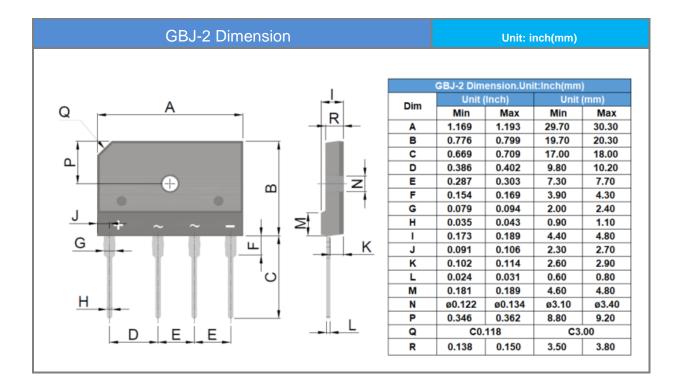




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
GBJ1510	GBJ-2	15 pcs / tube	GBJ1510

Packaging Information



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