

GBJ2506F

Low VF Glass Passivated Bridge Rectifiers

Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any
- Note: Products with logo

are made by HY Electronic (Cayman) Limited.

Applications

• General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

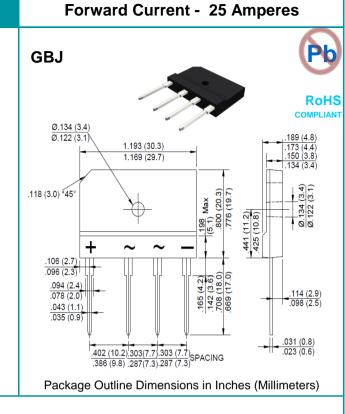
For capacitive load, derate current by 20%.

Characteristics	Symbol	GBJ2506F	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward (with heatsink Note 2)	l(AV)	25.0	A
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	4.2	~
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	350	А
Superimposed on Rated Load (JEDEC Method)			~
² t Rating for Fusing (t<8.3mS)	l ² t	508	A ² s
Peak Forward Voltage per Diode at12.5A DC	Vf	0.92	V
Maximum DC Reverse Current at Rated $@T_J=25^\circ\!C$	IR	5.0	
DC Bolcking Voltage per Diode @Tj=125 $^\circ\!\!\mathbb{C}$	IK	127	μA
Typical Junction Capacitance per Diode (Note1)	CJ	85	pF
Typical Thermal Resistance to Ambient (Note2)	Reja	4.5	
Typical Thermal Resistance to case (Note2)	Rejc	0.6	°C/W
Typical Thermal Resistance to lead (Note2)	Rejl	1.5	
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

3. The typical data above is for reference only .



Reverse Voltage - 600 Volts

Rating and Characteristic Curves GBJ2506F

0.1

Instantaneous Reverse Current (uA)

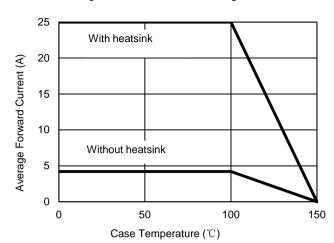


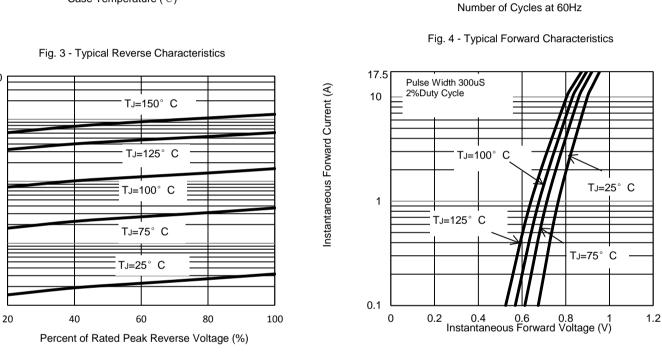


Fig. 2 - Maximum Non-Repetitive Surge Current

8.3mS Single Half-Sine-Wave

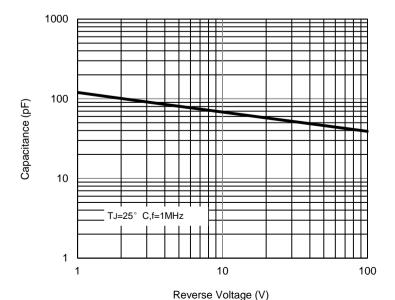
(JEDEC METOD)





Peak Forward Surge Current (A)





The curve above is for reference only.

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