GBJ25J-R-HAF

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

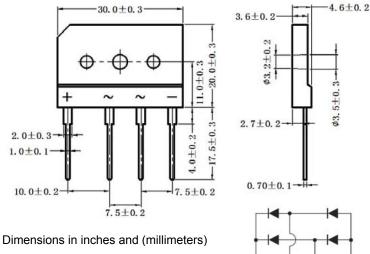
REVERSE VOLTAGE: 600 V FORWARD CURRENT: 25 A

Features

- Epoxy Resin material compliant with 94V-0 standards of UL Material Flammability
- Single in-line DIP package, compact size
- · Low forward voltage, high forward current capacitive
- · Small packaging size, high heat-Conducting performance
- · High surge current capability
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical data

- · Case:Molded plastic, GBJ
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position: Any



Absolute Maximum Ratings and Characteristics

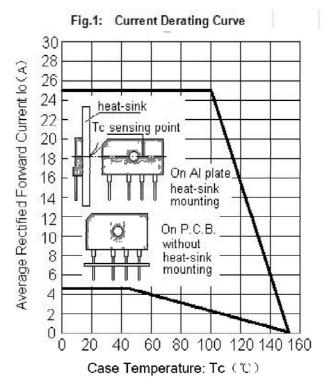
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

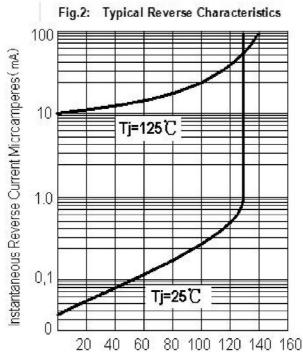
Parameter	Symbols	GBJ25J	Units
	Marking	D25XB60	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current with Heatsink $^{1)}$ $T_{C} = 98^{\circ}C$	I _(AV)	25	А
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I _{FSM}	350	А
Current Squared Time at 1 ms ≤ t ≤ 10 ms	l ² t	300	A ² S
Maximum Forward Voltage at 12.5 A DC	V _F	1.05	V
Maximum Reverse Current at $T_A = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_A = 125 ^{\circ}\text{C}$	I _R	5 500	μА
Typical Thermal Resistance, without heatsink 1)	$R_{ hetaJA}$	22	°C/W
Typical Thermal Resistance, with heatsink 2)	$R_{ heta JC}$	1	°C/W
Operating and Storage Temperature Range	T _J , T _{Stg}	- 45 to + 150	°C

¹⁾ Install on PCB with stated size heatsink

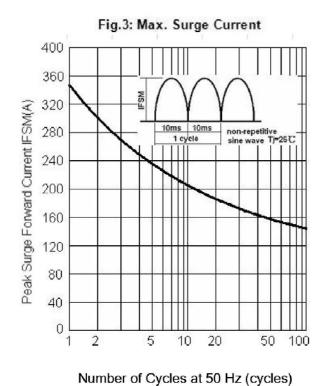
Dated: 18/11/2016 RU Rev: 01

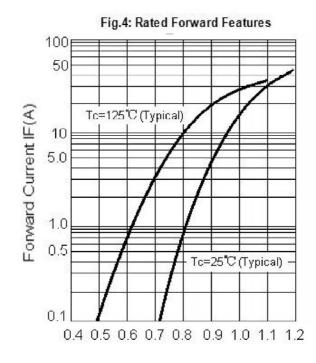
²⁾ Install on PCB without heatsink





Percentage of Max. rated reverse voltage (VB%)





Forward Voltage VF(V)