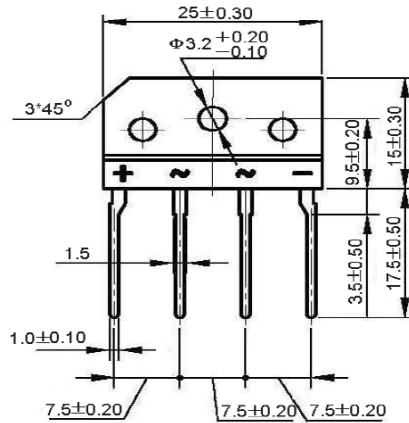


KBJ606-R-HAF

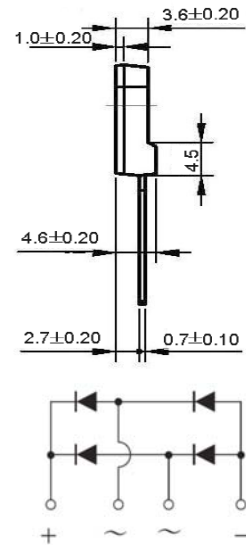
GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER REVERSE VOLTAGE: 600 V FORWARD CURRENT: 6 A

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



Dimensions in inches and (millimeters)



Mechanical data

- Case: Molded plastic, KBJ
- 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	KBJ606	Units
	Marking	KBJ606	-
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⁾ $T_C = 100^\circ\text{C}$	$I_{(AV)}$	6	A
Peak Forward Surge Current, 10 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I_{FSM}	150	A
Current Squared Time at $1\text{ ms} \leq t \leq 10\text{ ms}$	i^2t	80	A^2S
Maximum Forward Voltage at 3 A DC	V_F	1.1	V
Maximum Reverse Current at at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	5 500	μA
Typical Thermal Resistance, without heatsink ¹⁾	$R_{\theta JA}$	30	$^\circ\text{C/W}$
Typical Thermal Resistance, with heatsink ²⁾	$R_{\theta JC}$	5.5	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{Stg}	- 45 to + 150	$^\circ\text{C}$

¹⁾ Install on PCB with stated size heatsink

²⁾ Install on PCB without heatsink

Fig.1: Current Derating Curve

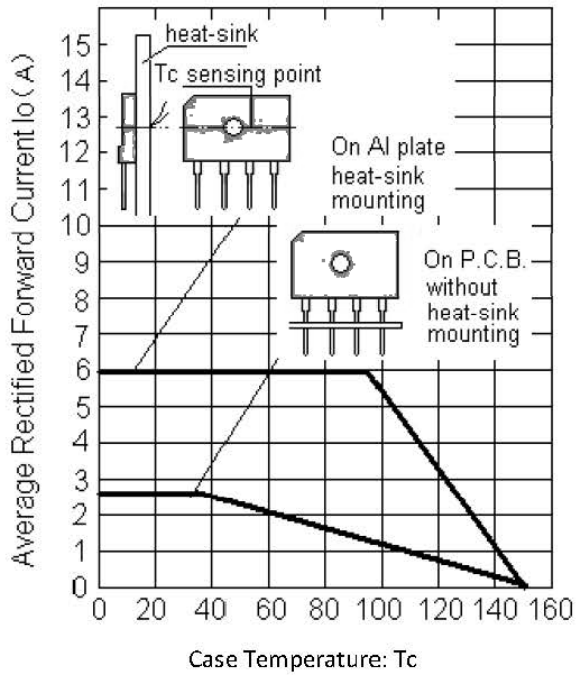


Fig.2: Typical Reverse Characteristics

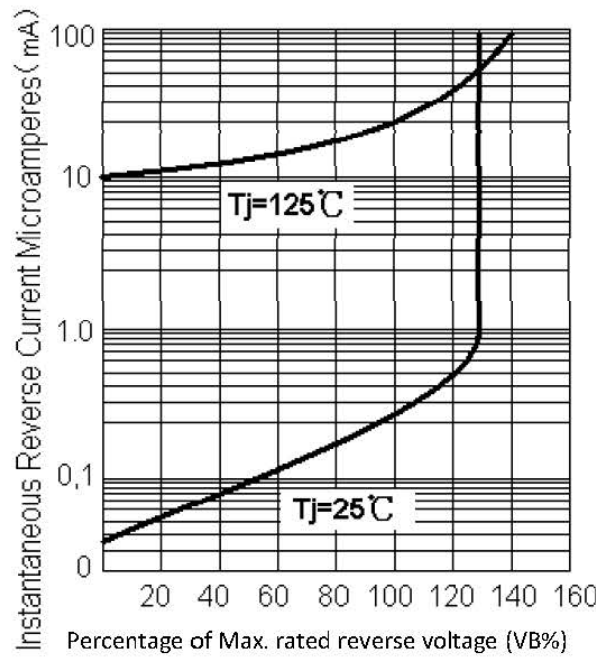


Fig.3: Max. Surge Current

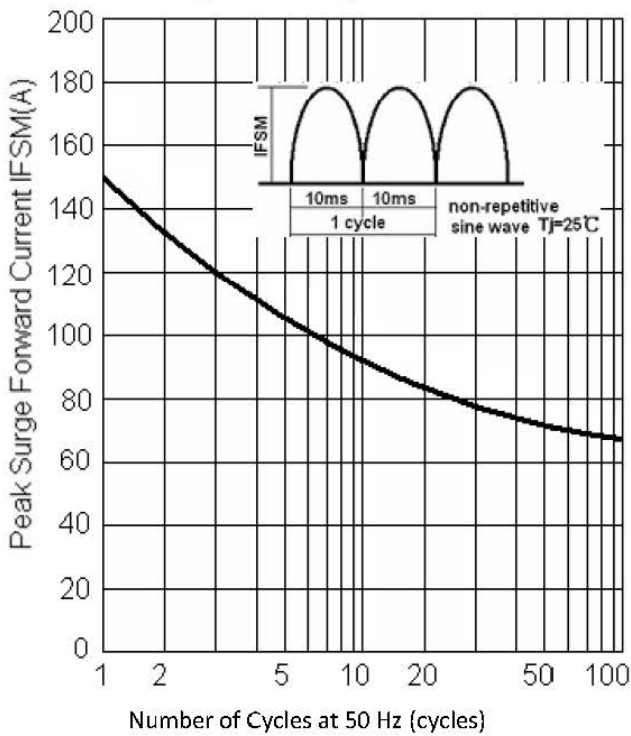


Fig.4: Rated Forward Features

