

KBJ801~KBJ810

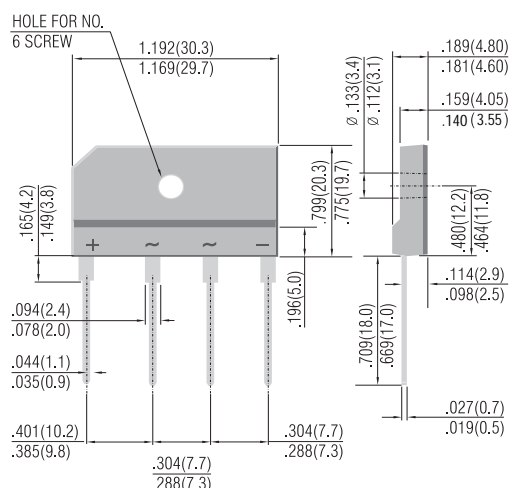
GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 100 to 1000 Volts **CURRENT** 8.0 Ampere



KBJ

Unit: inch (mm)



FEATURES

- Plastic material has Underwriters Laboratory, Flammability Classification 94V-0
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed:
260°C/10 seconds/.375"(9.5mm) lead length at 5 lbs. (2.3kg) tension
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Leads solderable per MIL-STD-202,

Method 208

Mounting position: Any

Mounting torque: 5 in. lb. Max.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	KBJ801	KBJ802	KBJ804	KBJ806	KBJ808	KBJ810	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward $T_C=100^\circ\text{C}$ Rectified Output Current at $T_A=40^\circ\text{C}$	I_{AV}	8.0 6.0						A
I^2t Rating for fusing ($t < 8.3\text{ms}$)	I^2t	166						A ² sec
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200						Apk
Maximum Instantaneous Forward Voltage Drop per element at 4.0A	V_F	1.0						Vpk
Maximum Reverse Leakage Current at Rated @ $T_A=25^\circ\text{C}$ Dc Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	10 500						uA
Typical Thermal Resistance per leg (Note 2) (Note 3)	$R_{\theta JA}$ $R_{\theta JC}$	8.6 3.1						°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150						°C

NOTES:

1. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.
2. Units Mounted in free air, no heatsink, P.C.B at 0.375"(9.5mm) lead length with 0.5 x 0.5"(12 x 12mm) copper pads.
3. Units Mounted on a 2.6 x 1.4" x 0.06" thick (6.5 x 3.5 x 0.15cm) AL plate.

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RATING AND CHARACTERISTIC CURVES

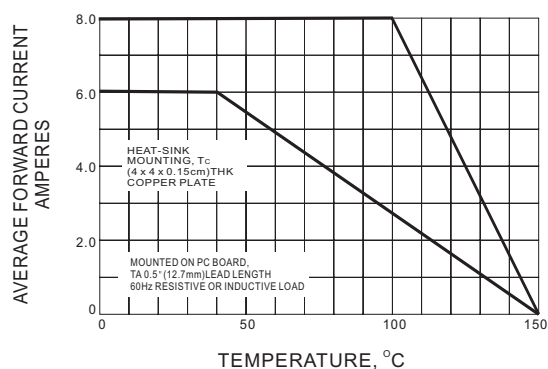


Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

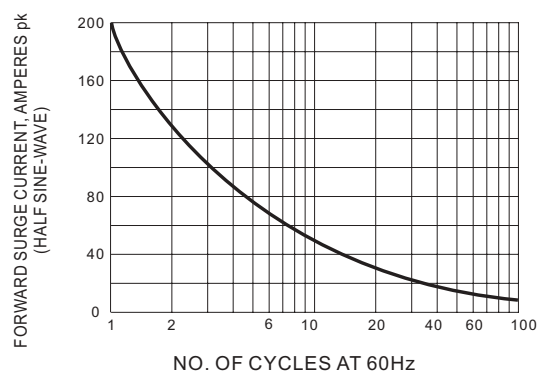


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

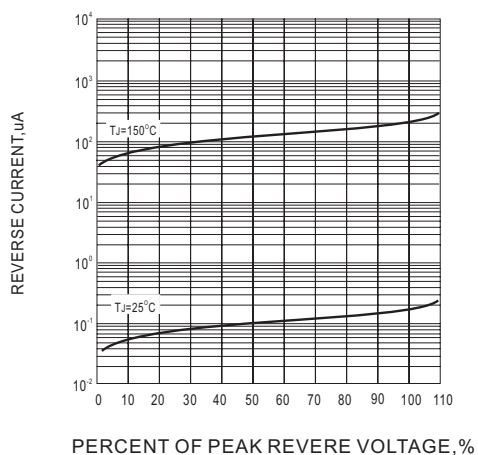


Fig.3 - TYPICAL REVERSE CHARACTERISTICS

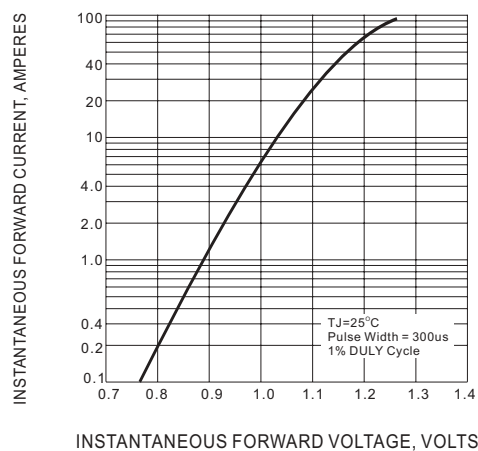


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

The curve graph is for reference only, can't be the basis for judgment

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