

# KBJ8005 THRU KBJ810

## SINGLE PHASE8.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

### **FEATURE**

• UL Listed Under Recognized Component Index, File Number E338195

- . Glass passivated chip junctions
- . High case dielectric stength
- . Low Reverse Leakage Current
- . High surge current capability
- . Ideal for Printed Circuit Board Applications

### **MECHANICAL DATA**

. Case: KBJ

. Case Material: Molded Plastic.

UL Flammability Classification Rating 94V-0

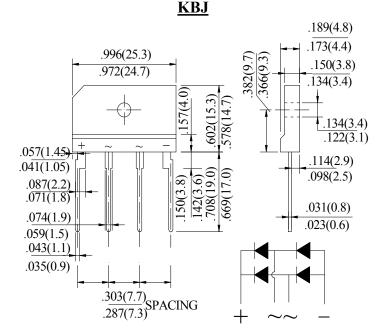
. Terminals: Pure tin plated, Lead free.

Leads solderable per MIL-STD-750, Method 2026.

. Polarity: Molded on Body

Mounting: Through Hole for #6 ScrewMounting Torque: 5.0 in-lbs Maximum

. Weight: 4.3 grams



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	SYM BOL	KBJ 8005	KBJ 801	KBJ 802	KBJ 804	KBJ 806	KBJ 808	KBJ 810	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink N Rectified Current @ T <sub>C</sub> =110°C(without heats	F(AV)	F(AV) 8.0 2.9					A		
Peak Forward Surge Current 8.3ms single hal sine-wave superimposed on rate load (JEDEC method)					200				A
Maximum Forward Voltage @ 8.0A I  Drop per element @ 4.0A I	V <sub>E</sub>	1.1 1.0						V	
Maximum DC Reverse Current $@T_J = 25$ at rated DC blocking voltage $@T_J = 125$	<b>/</b> D	5.0 500.0							μΑ
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	<i>I</i> <sup>2</sup> t				166				A <sup>2</sup> Sec
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	$C_{\rm J}$ 60					pF		
Typical Thermal Resistance (Note 2)		2.5							°C/W
Storage Temperature	T <sub>STG</sub>	-55 to +150					°C		
Operating Junction Temperature	$T_{ m J}$			-:	55 to +15	50			°C

#### Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2.Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

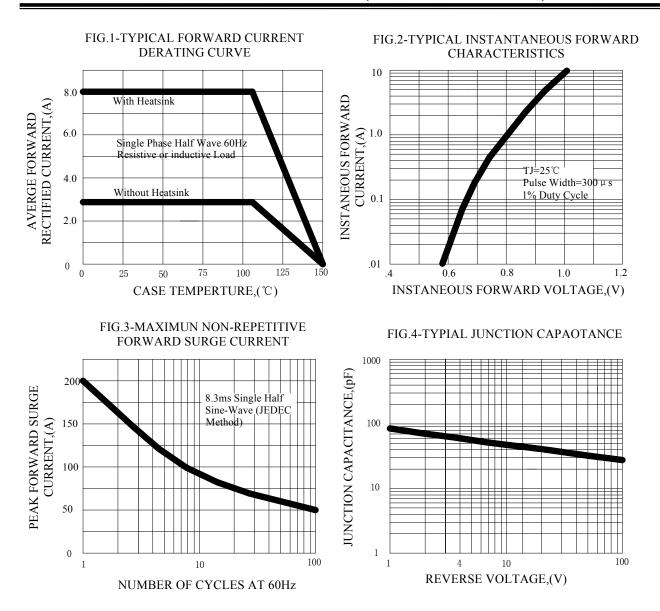
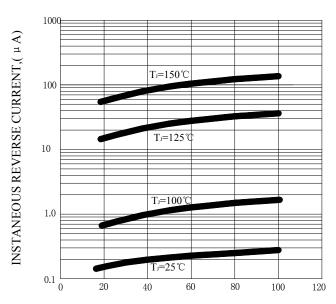


FIG.5-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)