

KBJ10005 THRU KBJ1010

PINGWEIENTERPRISE SINGLE PHASE 10.0 AMPS. 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

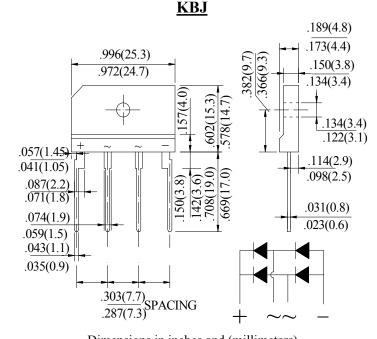
. Terminals: Pure tin plated, Lead free.

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 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	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 Note2) Rectified Current @ T _C =110°C(without heatsink)		I _{F(AV)}	10.0 3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		$I_{ m FSM}$	220							A
•	0.0A DC .0A DC	$V_{ m F}$		1.1 1.05						V
9	<u> </u>			10.0 500.0						
I ² t Rating for Fusing (t < 8.3ms)		<i>I</i> ² t	200							A ² Sec
Typical Junction Capacitance (Note 1)		C _J	70							pF
Typical Thermal Resistance (Note 2)		$R_{(JC)}$	2.0							°C/W
Storage Temperature		$T_{\rm STG}$	-55 to +150							°C
Operating Junction Temperature		$T_{ m J}$	-55 to +150							°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2.Device mounted on 150mm x 150mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES (KBJ10005 THRU KBJ1010)

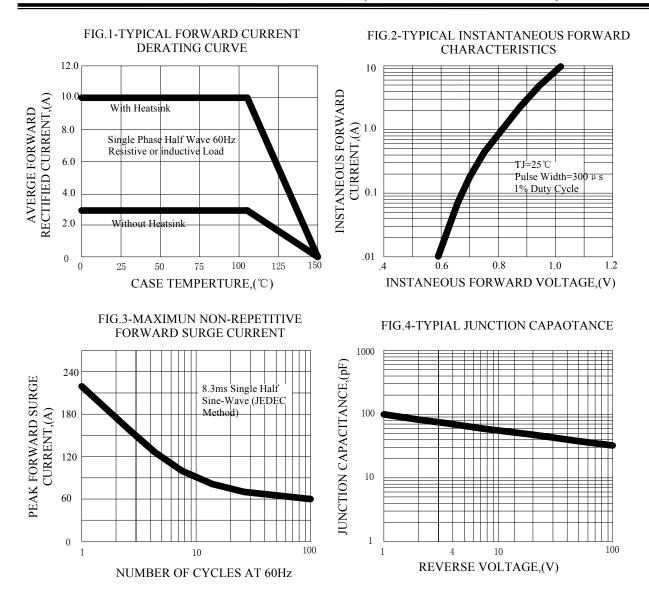
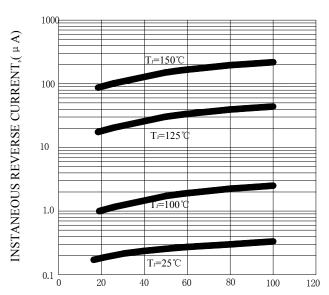


FIG.5-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)