

KBJ4005 THRU KBJ410

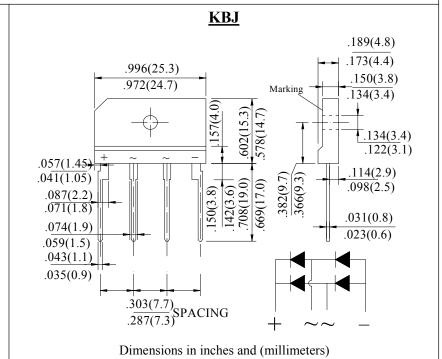
SINGLE PHASE4.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

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 Screw
- . Mounting Torque: 5.0 in-lbs Maximum
- . Weight: 4.3 grams



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 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	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 =115°C(without heatsink)		I _{F(AV)}	4.0 2.4							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		$I_{ m FSM}$	150							A
č	DA DC DA DC	$V_{\rm F}$ 1.1 1.0						V		
<u> </u>	=25°C 125°C	I _R 5.0 500.0						μА		
I ² t Rating for Fusing (t < 8.3ms)		<i>I</i> ² t	93							A ² Sec
Typical Junction Capacitance (Note 1)		C _J	40							pF
Typical Thermal Resistance (Note 2)		$R_{(JC)}$	5.5							°C/W
Storage Temperature		T_{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 75mm x 75mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES (KBJ4005 THRU KBJ410)

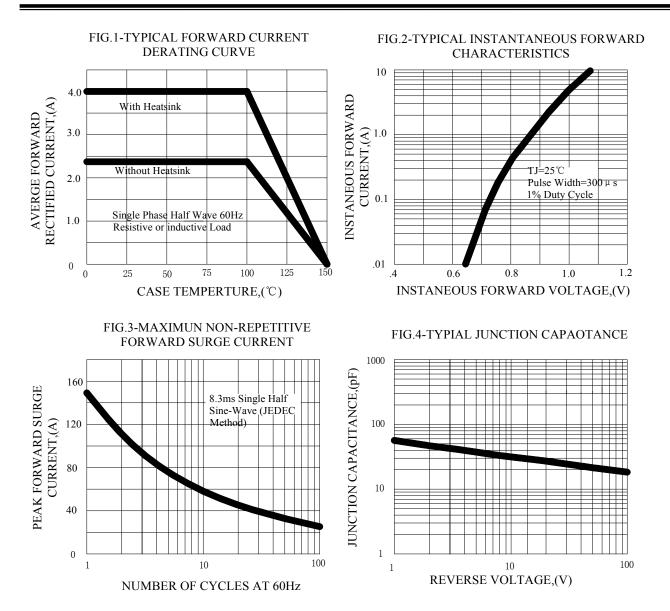
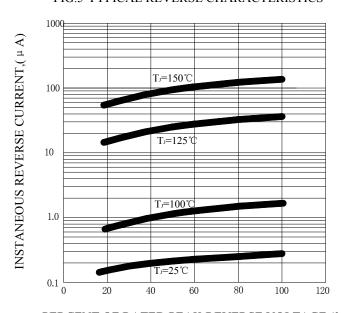


FIG.5-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)