



KBJ10005 THRU KBJ1010

PINGWEI ENTERPRISE SINGLE PHASE 10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

<p>FEATURE</p> <ul style="list-style-type: none"> . Ideal for printed circuit board . Glass passivated chip junctions . High case dielectric strength . Low leakage . Low forward voltage . High surge current capability . High temperature soldering guaranteed: 260°C/10seconds/.375" (9.5mm) lead lengths. <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> . Case: Molded plastic body . Epoxy: UL 94V-0 rate flame retardant . Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-750, Method 2026. . Polarity: Symbols molded or marked on body . Mounting position: Any 	<p style="text-align: center;"><u>KBJ</u></p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>
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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_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Output Current at $T_C=90^\circ C$	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	175							A
Maximum Forward Voltage Drop per element at 10.0A DC	V_F	1.1							V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=125^\circ C$	I_R	10.0 500.0							μA
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	127							A ² Sec
Typical Junction Capacitance (Note 1)	C_J	55							pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.5							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operating Junction Temperature	T_J	-55 to +150							°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to case per element units mounted on 30.0×30.0×1.6mm Aluminum plate heat-sink.

RATING AND CHARACTERISTIC CURVES (KBJ10005 THRU KBJ1010)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

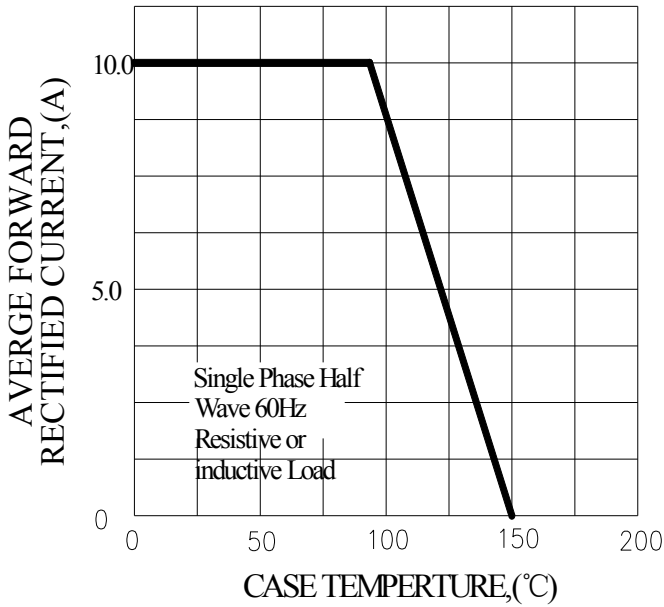


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

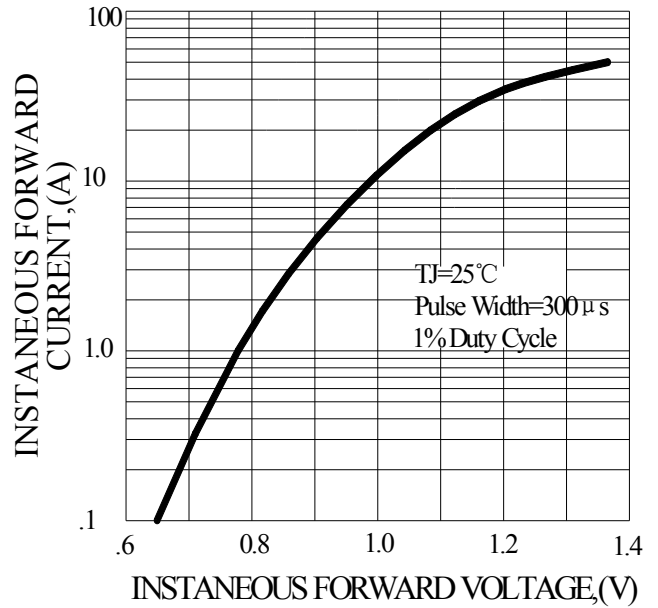


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

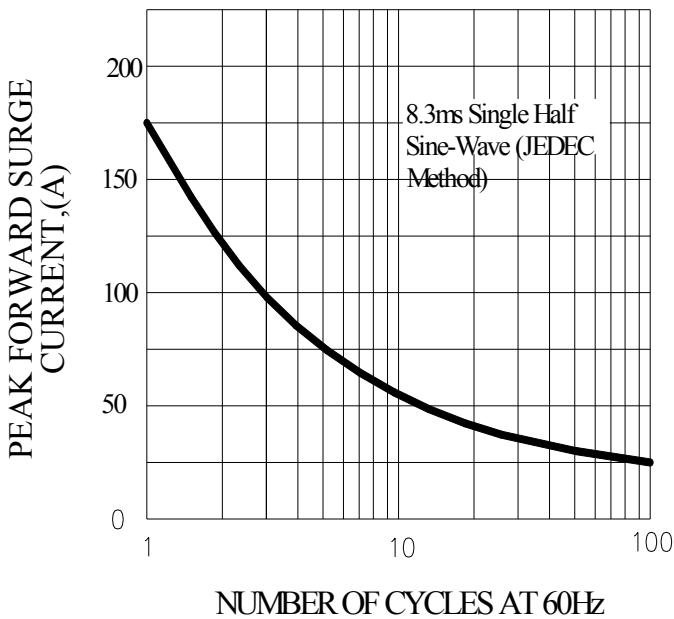


FIG.4-TYPICAL REVERSE CHARACTERISTICS

