



## KBJ10005 THRU KBJ1010

**PINGWEI ENTERPRISE SINGLE PHASE 10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS**

<p><b>FEATURE</b></p> <ul style="list-style-type: none"> <li>. Ideal for printed circuit board</li> <li>. Glass passivated chip junctions</li> <li>. High case dielectric strength</li> <li>. Low leakage</li> <li>. Low forward voltage</li> <li>. High surge current capability</li> <li>. High temperature soldering guaranteed: 260°C/10seconds/.375" (9.5mm) lead lengths.</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>. Case: Molded plastic body</li> <li>. Epoxy: UL 94V-0 rate flame retardant</li> <li>. Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-750, Method 2026.</li> <li>. Polarity: Symbols molded or marked on body</li> <li>. Mounting position: Any</li> </ul>	<p style="text-align: center;"><b><u>KBJ</u></b></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%

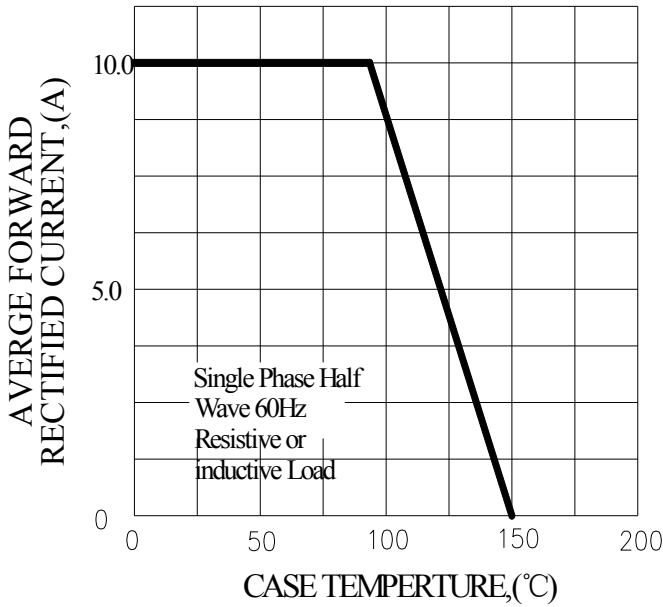
Type Number	SYM BOL	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum 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							$\mu A$
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	127							A <sup>2</sup> 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:**

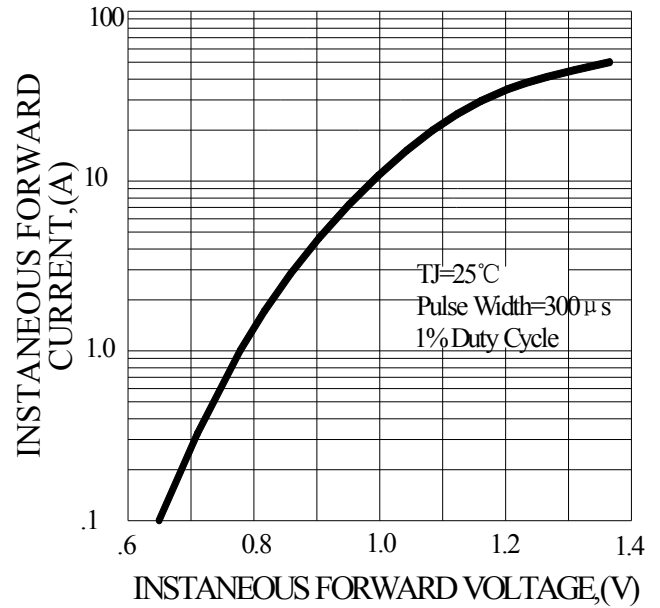
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to case per element units mounted on 30.0×30.0×1.6mm Aluminum plate heat-sink.

**RATING AND CHARACTERISTIC CURVES (KBJ10005 THRU KBJ1010)**

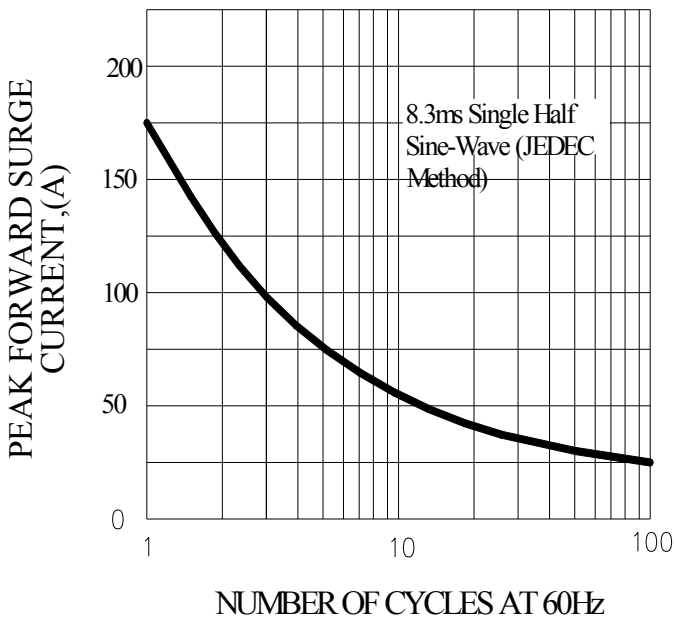
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



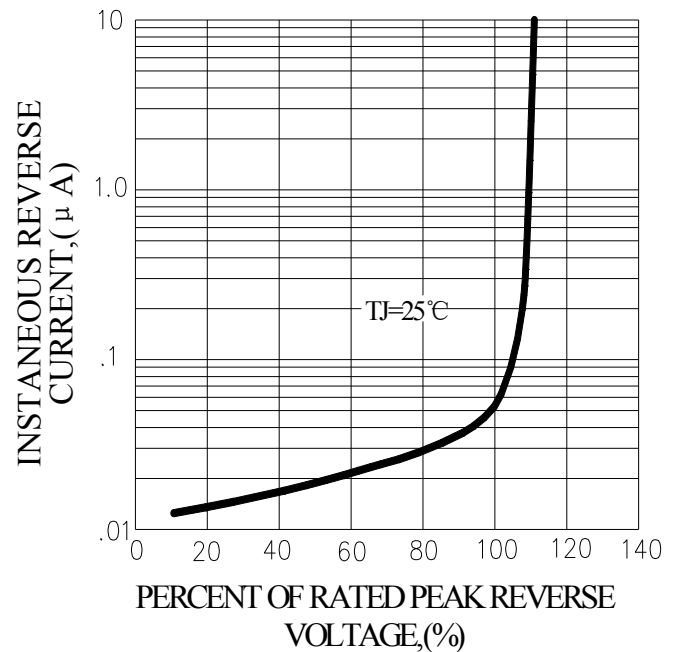
**FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



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