

KBJ10005 THRU KBJ1010

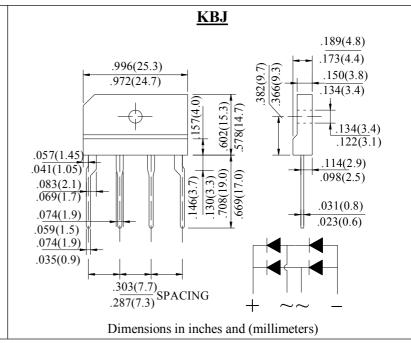
PINGWEIENTERPRISE SINGLE PHASE 10.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURE

- . 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.

MECHANICAL DATA

- . 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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	SYM	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	units
	BOL	10005	1001	1002	1004	1006	1008	1010	
Maximum Recurrent Peak Reverse Voltage	$V_{\rm RRM}$	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 rectified Output	I _{F(AV)}	10.0							A
Current at T _C =90°C	2F(AV)								
Peak Forward Surge Current 8.3ms single half									
sine-wave superimposed on rate load (JEDEC	I_{FSM} 175							A	
method)									
Maximum Forward Voltage Drop per element	$V_{ m F}$	1.1							V
at 10.0A DC									
Maximum DC Reverse Current @T _A =25°C	7_	10.0							μА
at rated DC blocking voltage @T _A =125°C	$I_{ m R}$	500.0							
I ² t Rating for Fusing (t < 8.3ms)	<i>I</i> ² t				127				A ² Sec
Typical Junction Capacitance (Note 1)	$C_{ m J}$	55							pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.5							°C/W
Storage Temperature	T _{STG}	-55 to +150							°C
Operating Junction Temperature	$T_{ m J}$	-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)

