

KBJ6005 THRU KBJ610

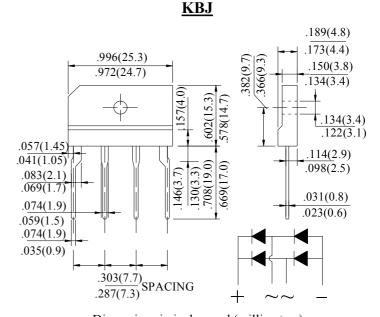
PINGWEIENTERPRISE SINGLE PHASE 6.0 AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25\,^{\circ}$ 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	6005	601	602	604	606	608	610	
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 rectified Output Current at T_C =90°C	$I_{\mathrm{F(AV)}}$	6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{ m FSM}$	150							A
Maximum Forward Voltage Drop per element at 6.0A DC	$V_{ m F}$	1.1							V
Maximum DC Reverse Current @T _A =25°C at rated DC blocking voltage @T _A =125°C	$I_{ m R}$	10.0 500.0							μА
I ² t Rating for Fusing (t < 8.3ms)	<i>I</i> ² t	93							A ² Sec
Typical Junction Capacitance (Note 1)	$C_{ m J}$	45							pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.8							°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 (KBJ6005 THRU KBJ610)

