

KBJ50005 thru KBJ5010

50.0 A Single-Phase Glass Passivated Bridge Rectifiers Rectifier Reverse Voltage 50 to 1000V

3.5 0.2

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has Underwriters Laboratory flammability classification 94V-0

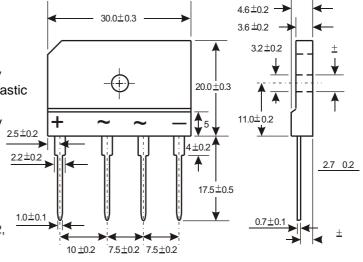


Case: Molded plastic

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Polarity: Marked on body Mounting Position: Any

Weight: 0.26 ounce, 7.0 grams (approx)



KBJ-4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter		Symbol	KBJ 50005	KBJ 5001	KBJ 5002	KBJ 5004	KBJ 5006	KBJ 5008	KBJ 5010	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 (with heat sink ²)		I _(AV)	50							А
Rectified Current @T _C =100°C (without heat sink)										
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		I _{FSM}	400							А
Maximum Forward Voltage @ 25A DC		V_{F}	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C		10.0							μA
	T _J =125°C	I _R	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	660							A ² s
Typical Thermal Resistance ¹		Rejc	1.5							°C/W
Operating and Storage temperature range		T _J ,T _{STG}	-55~150							°C

Notes:

- 1. Thermal resistance from junction to case with units mounted on heat sink.
- Device mounted on 300mm*300mm*1.6mm Cu plate heat sink.



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RATINGS AND CHARACTERISTIC CURVES

