KBJ6005 THRU KBJ610

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage: 50 to 1000 V

Forward Current: 6 A

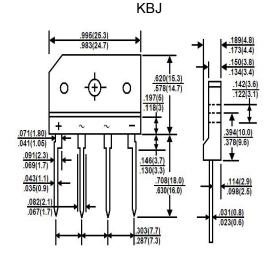
Features

- · Glass passivated chip junction
- · Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Reliable low cost construction utilizing molded plastic technique

Mechanical Data

- Case: Molded plastic, KBJ
- Epoxy: UL94V- 0 rate flame retardant
- Terminals:Leads solderable per MIL-STD-202, Method 208 guaranteed
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.



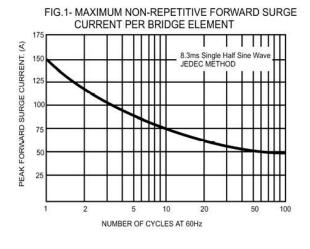
Dimensions in inches and (millimeters)

For capacitive load, derate by 20%.	1						1	1	
Parameter	Symbols	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610	Units
Maximum Repetitive 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
Average Rectified Rectified Current at T _C = 110 °C	I _{F(AV)}	6							А
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150							A
Maximum Forward Voltage at 3 A DC	V _F	1						V	
Maximum Reverse Current $T_A = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 125 \ ^{\circ}C$	I _R	5 500							μA
Typical Junction Capacitance ¹⁾	Cj	80							pF
Typical Thermal Resistance ²⁾	R _{θJC}	1.5							°C/W
Operating Junction Temperature Range	Tj	- 55 to + 150							°C
Storage Temperature Range	T _{stg}	- 55 to + 150							°C

 $^{\rm 1)}$ Measured at 1 MHz and applied reverse voltage of 4 V DC

²⁾ Thermal Resistance from Junction to Case with Device Mounted on 75 mm X 75 mm X 1.6 mmCu Plate Heatsink.





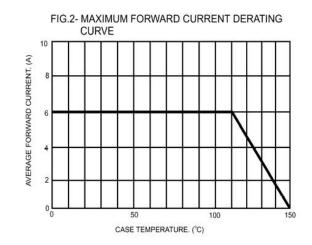


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

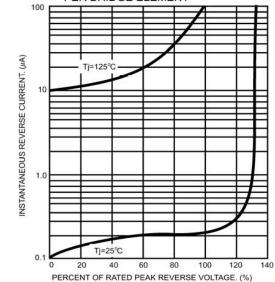


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

