

FEATURES

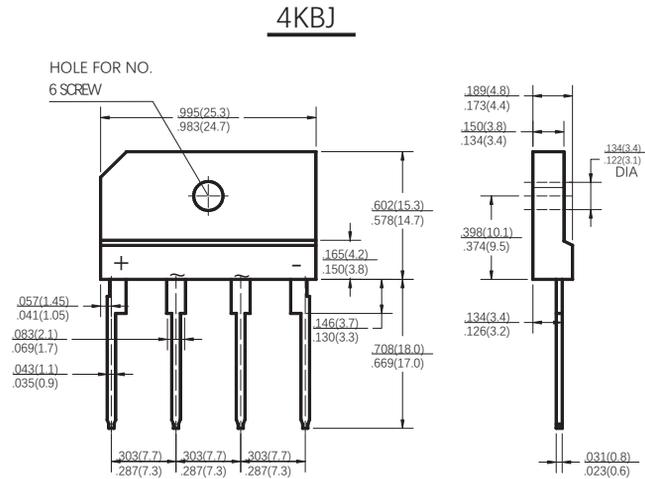
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

- Case: 4KBJ molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave , resistive or inductive load. For capacitive load,derate current by 20%.)

Parameters	Symbol	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610	Units
Maximum Repetitive Rverse Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (See Fig 2)	I_{FAV}	6.0						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	135						Amps
Rating for fusing (t=8.3ms)	I^2t	75						A ² S
Maximum Instantaneous Forward Voltage at 3.0A per diode	V_F	1.0						Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_J=25^{\circ}C$	5.0						μA
	$T_J=125^{\circ}C$	100						μA
Typical Thermal Resistance Junction And Ambient (Note 2)	$R_{\theta JA}$	26						$^{\circ}C/W$
	Junction And Case	$R_{\theta JC}$						3.4
Typical Junction capacitance (Note 1)	C_J	45						pF
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						$^{\circ}C$

NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts.
2 Device mounted on 75mm x 75mm x 1.6mm AL plate heatsink

FIG.1-MAXIMUM FORWARD SURGE CURRENT

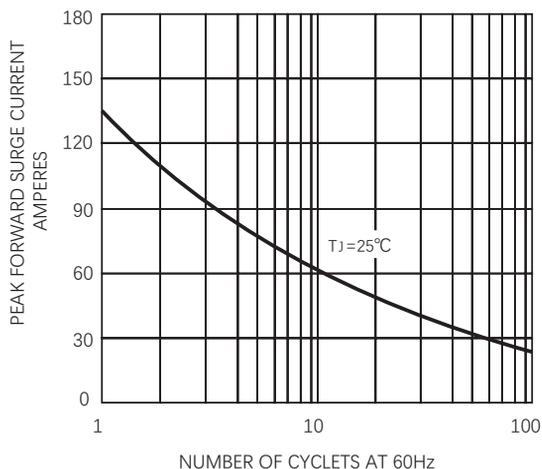


FIG.2 FORWARD CURRENT DERATING CURVE

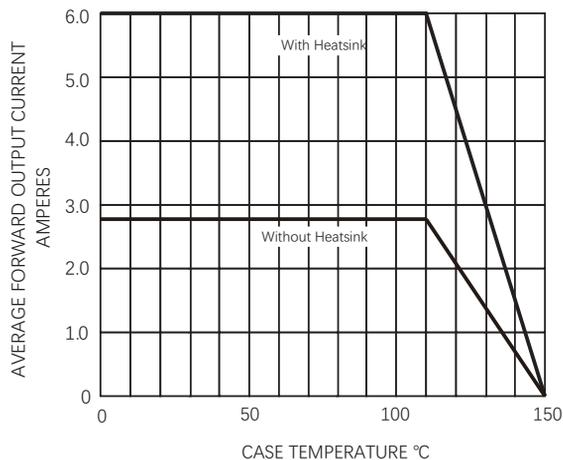


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

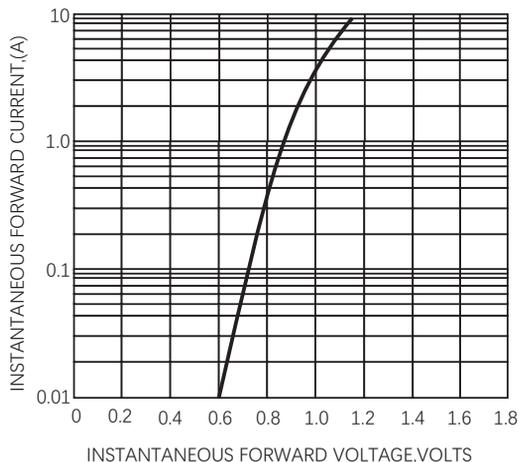
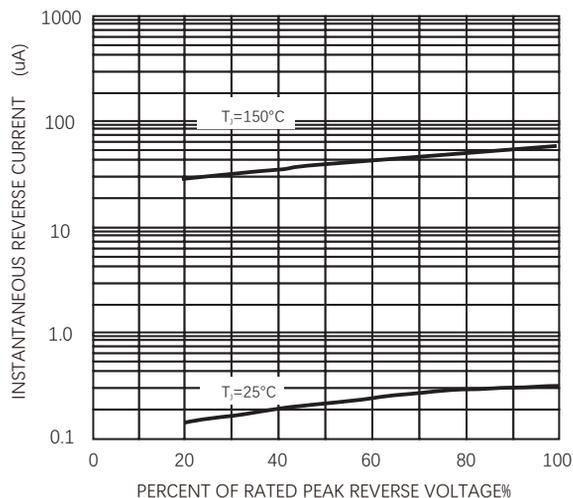


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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