SEMICONDUCTOR

KBJ3501 THRU KBJ3510

BRIDGE RECTIFIER

Reverse Voltage: 100 to 1000 Volts
Forward Current: 35. 0 Amps

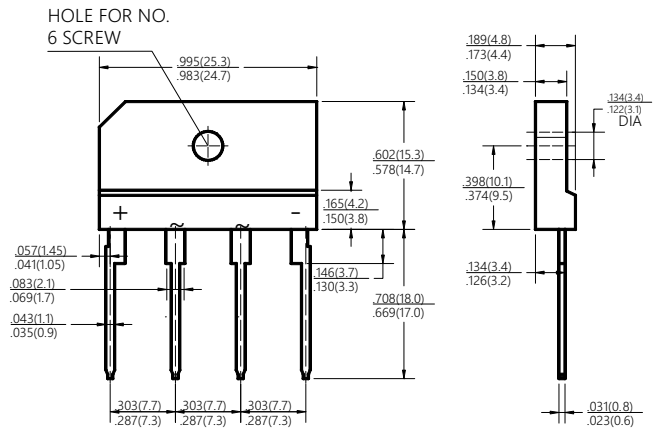
FEATURES

- 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

4KBJ



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	KBJ3501	KBJ3502	KBJ3504	KBJ3506	KBJ3508	KBJ3510	Units
Maximum Recurrent 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	$I_{(AV)}$	35. 0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	350						Amps
Rating for fusing (t<8. 3ms)	I^2t	508						A^2s
Maximum Instantaneous Forward Voltage at 17. 5 A per diode	V_F	1. 1						Volts
Maximum DC Reverse Current @ T_J=25℃ at rated DC blocking voltage @ T_J=125℃	I_R	5 500						μA
Typical thermal resistence(Note1)	$R_{\theta JA}$ $R_{\theta JC}$	20 0.8						°C/W
Typical Junction Capacitance(Note2)	C_J	85						pF
Operating temperature range	T_J	-55 to +150						°C
Storage temperature range	T_{STG}	-55 to +150						°C

NOTES: 1.Device mounted on 300mm*300mm*1.6mm cuplate heatsink.
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES KBJ3501 THRU KBJ3510

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

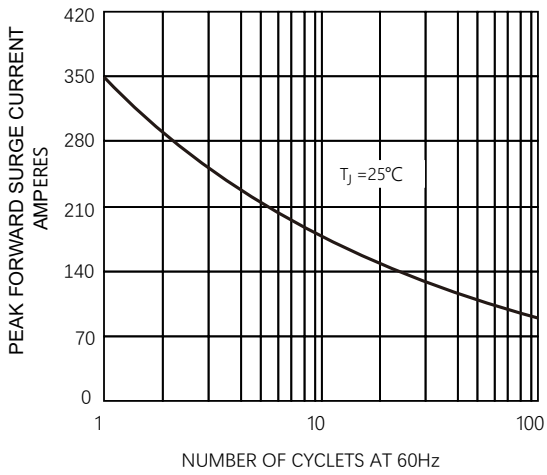


FIG.2-FORWARD CURRENT DERATING CURVE

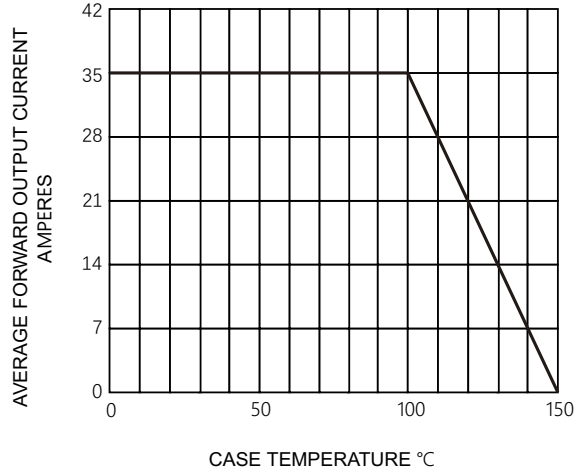


FIG.3-TYPICAL FORWARD CHARACTERISTICS

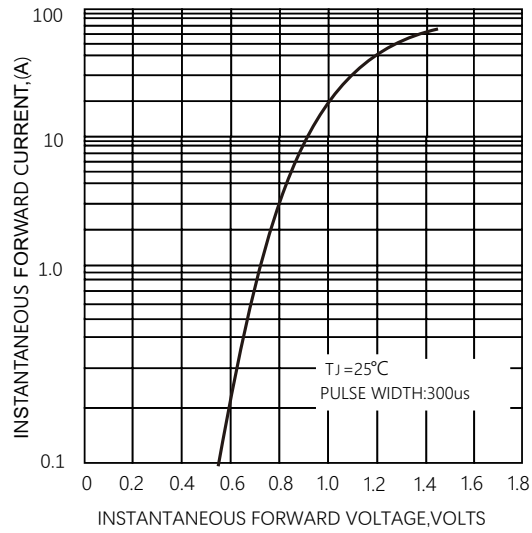
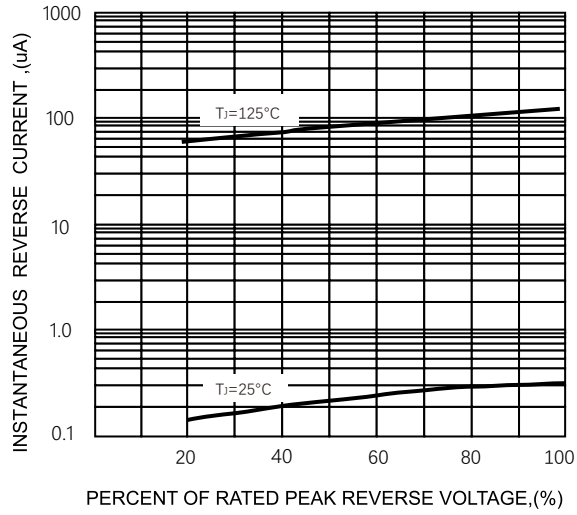


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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