



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER KBJ801G ~ KBJ807G

Single Phase Glass Passivated Bridge Rectifier

Features

- Plastic package has UL flammability Classification 94V-0
- High case dielectric strength of 1500 V_{RMS}
- High surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375"(9.5mm) lead length
- RoHS and REACH Compliance

Mechanical Data

Case:	Molded plastic body
Polarity	/
Terminals:	Plated Leads solderable per MIL-STD-750 method 2026
Mounting torque	6 in-lbs max
Mounting position:	Any (note 2)
Weight:	0.15 ounce, 4.0 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

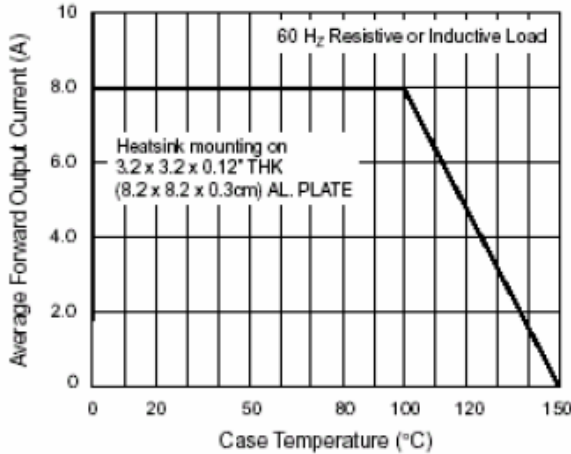
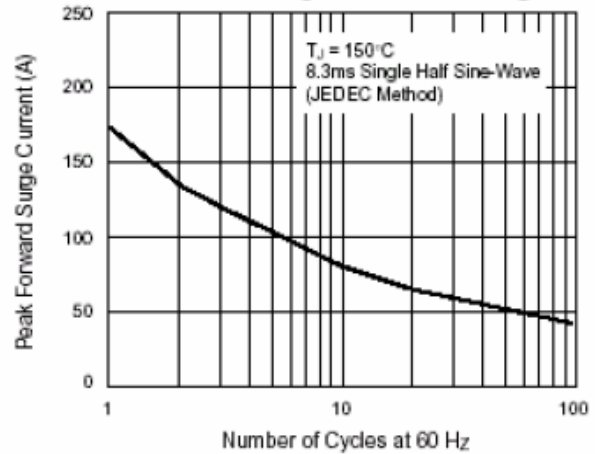
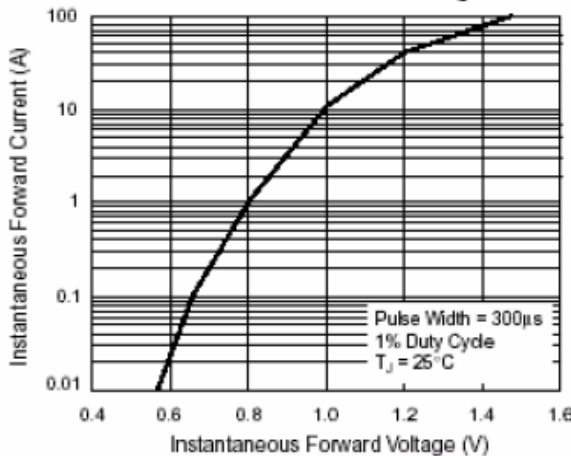
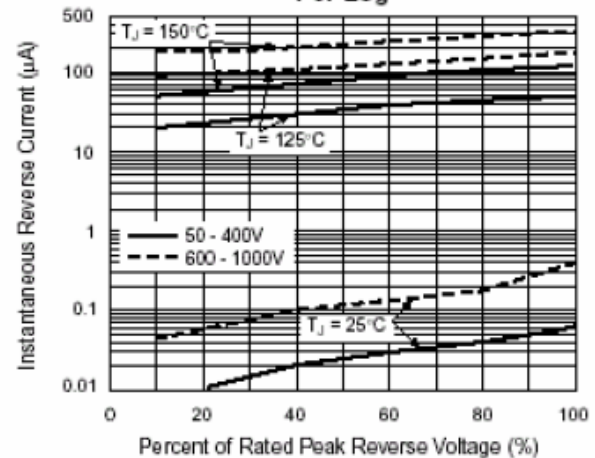
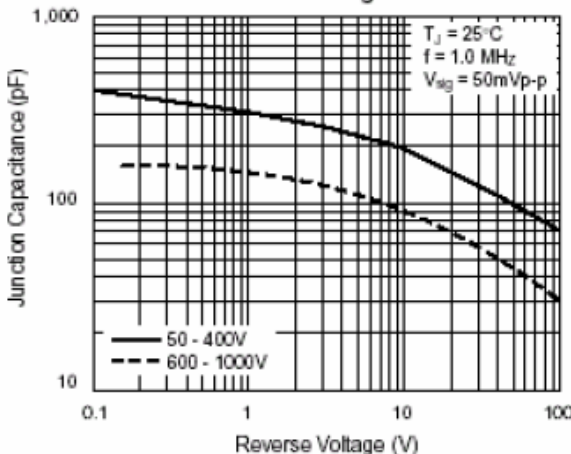
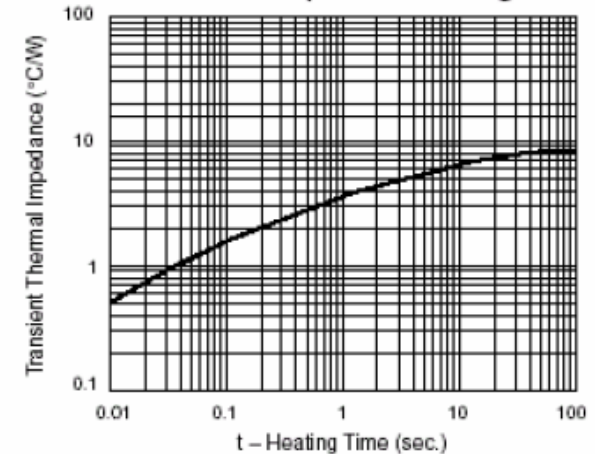
Symbol	Description	KBJ 801G	KBJ 802G	KBJ 803G	KBJ 804G	KBJ 805G	KBJ 806G	KBJ 807G	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current	8.0							A	@Tc=100°C
IFSM	Peak Forward Surge Current	170							A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150							°C	
I2t	Rating for Fusing	120							A2s	T<8.3mS

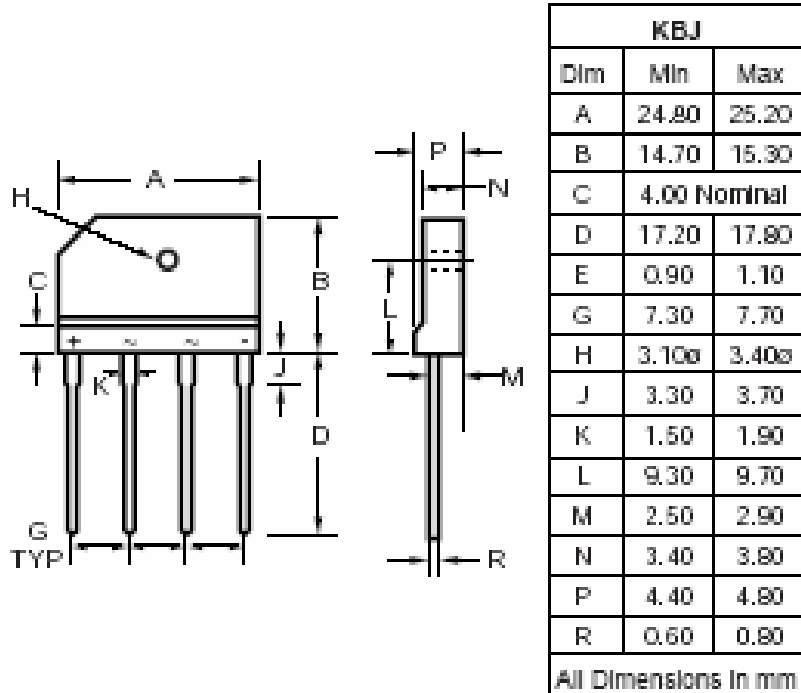
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	KBJ 801G	KBJ 802G	KBJ 803G	KBJ 804G	KBJ 805G	KBJ 806G	KBJ 807G	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0							V	Drop per Bridge element 4.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							µA	TA=25°C
		500								Tc=125°C
Rθ-Ja	Typical Thermal Resistance	2.2							°C/W	Note 1
CJ	Typical Junction capacitance per leg	211				94			pF	Measured at 1.0MHz/4.0V

Note:

1. Unit mounted on 2.6" X 1.4" X 0.06" (6.5cm x 3.5cm x 0.15cm) AL Plate
2. Recommended mounting position is to bolt down on heat-sink using #6 screw and silicon thermal compound for maximum heat transfer

KBJ801G ~ KBJ807G
RATINGS AND CHARACTERISTIC CURVES KBJ801G ~ KBJ807G
Fig. 1 – Derating Curve Output Rectified Current

Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

Fig. 3 – Typical Forward Characteristics Per Leg

Fig. 4 – Typical Reverse Characteristics Per Leg

Fig. 5 – Typical Junction Capacitance Per Leg

Fig. 6 – Typical Transient Thermal Impedance Per Leg


KBJ801G ~ KBJ807G
Dimensions in inches (mm)

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