

KBJ3501~KBJ3510

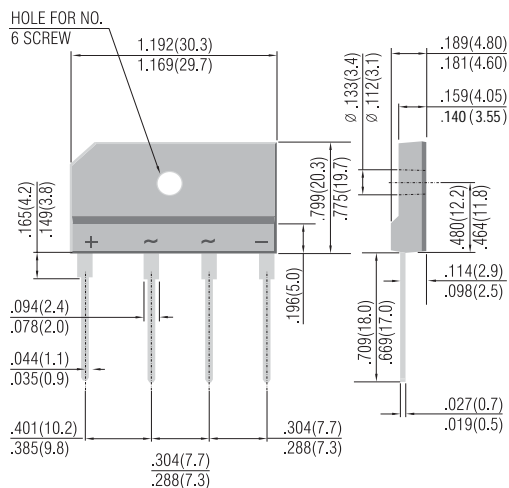
IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 35 Amperes



KBJ

Unit: inch (mm)



FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating : 400 Amperes
- High temperature soldering guaranteed : 260 °C/10 seconds/.375"(9.5mm) lead length at 5 lbs.(2.3kg) tension
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique
 Terminals: Leads solderable per MIL-STD-750, Method 2026
 Mounting position: Any
 Mounting torque : 20 in. lb. Max.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60 Hz.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	KBJ35005	KBJ3501	KBJ3502	KBJ3504	KBJ3506	KBJ3508	KBJ3510	UNITS	
Maximum Recurrent 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	
Maximum Average Forward Current for Resistive Load at T _c =55°C	I _{AV}	35								A
Non-repetitive Peak Forward Surge Current, Rated Load	I _{FSM}	400								A
Maximum Forward Voltage per Bridge Element at 17.5 A Specified Current	V _F	1.1								V
Maximum Reverse Leakage Current at Rated T _A =25°C	I _r	10								μA
Typical Thermal Resistance	R _{θJC}	1.2								°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50 TO +150								°C

NOTES:

1. Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

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FIG.1-FORWARD CURRENT DERATING CURVE

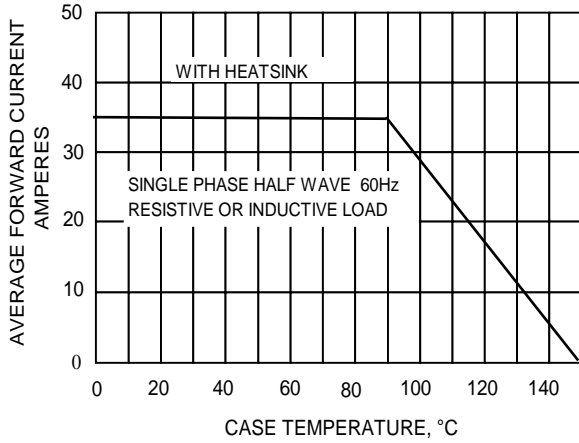


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

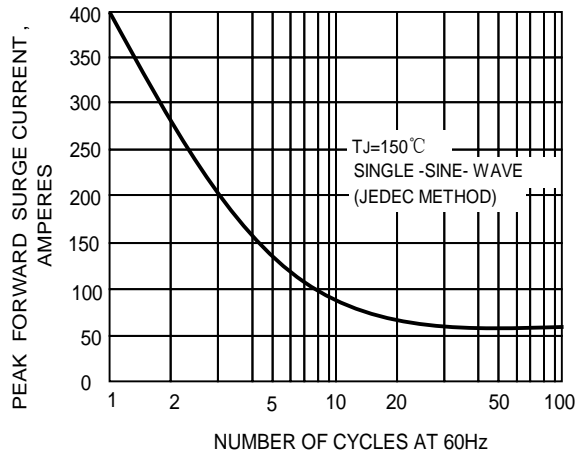


FIG.3-TYPICAL REVERSE CHARACTERISTICS

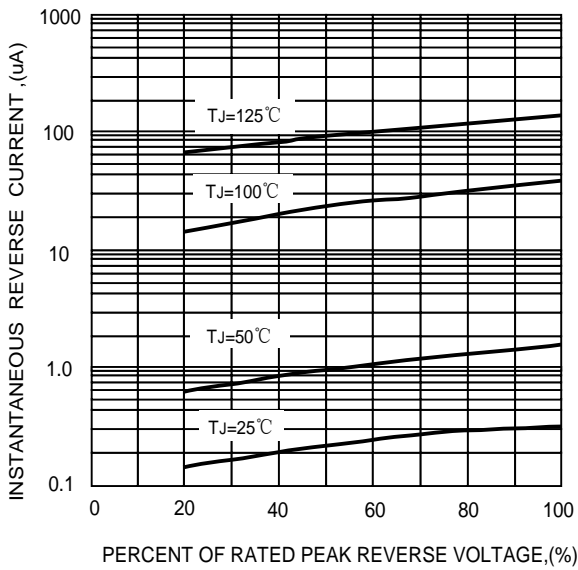


FIG.4-TYPICAL FORWARD CHARACTERISTICS

