



KBJ1500~KBJ1510

IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

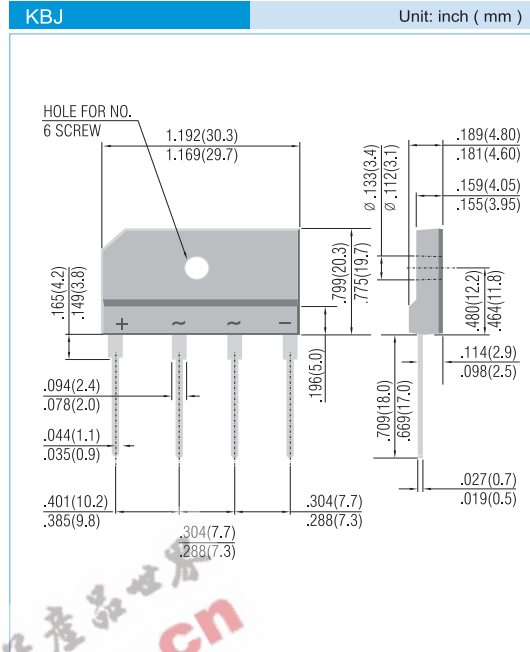
VOLTAGE 50 to 1000 Volts **CURRENT** 15 Amperes

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 : 200 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.
 Weight: 7.056g



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 | KBJ1500 | KBJ1501 | KBJ1502 | KBJ1504 | KBJ1506 | KBJ1508 | KBJ1510 | 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 $T_c=55^\circ\text{C}$ (Note) | $I_{F(AV)}$ | 15 | | | | | | | A |
| Non-repetitive Peak Forward Surge Current, Rated Load | I_{FSM} | 200 | | | | | | | A |
| Maximum Forward Voltage per Bridge Element at 15A Specified Current | V_F | 1.1 | | | | | | | V |
| Maximum Reverse Leakage Current at V_{RRM} | I_R | 10 | | | | | | | μA |
| Typical Thermal Resistance | $R_{\theta JC}$ | 1.2 | | | | | | | $^\circ\text{C} / \text{W}$ |
| Operating Junction Temperature Range | T_J | -50 TO +125 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -50 TO +125 | | | | | | | $^\circ\text{C}$ |

NOTES:

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



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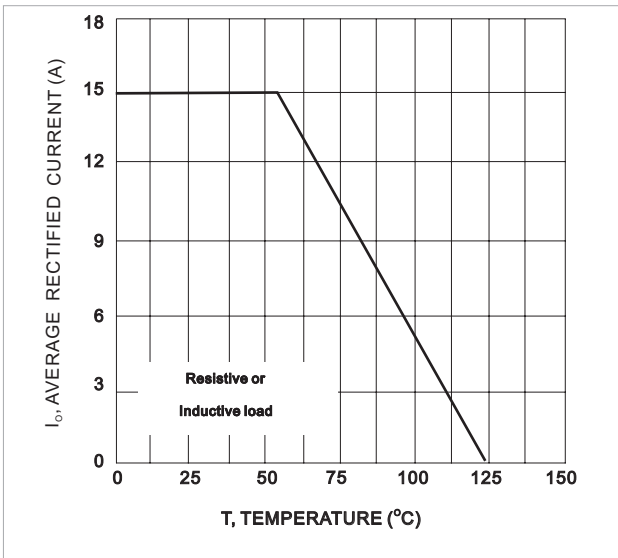


FIG.1-FORWARD CURRENT DERATING CURVE

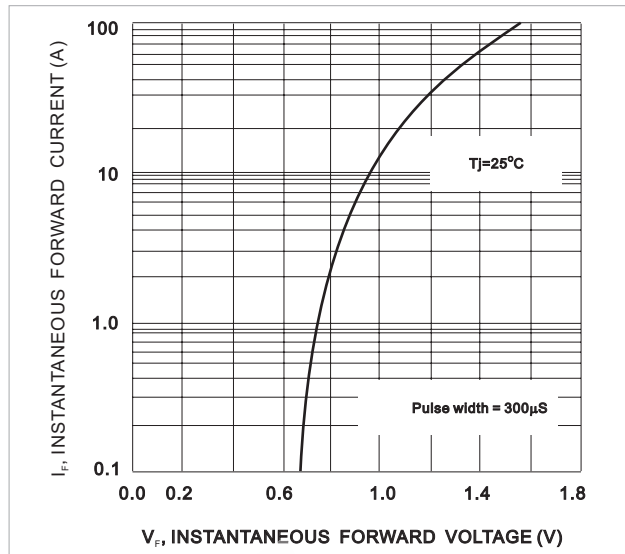


FIG.2-TYPICAL FWD CHARACTERISTICS, PER ELEMENT

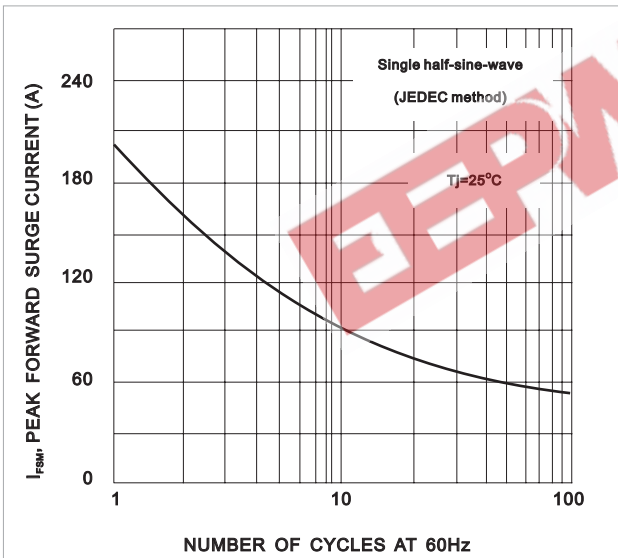


FIG.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

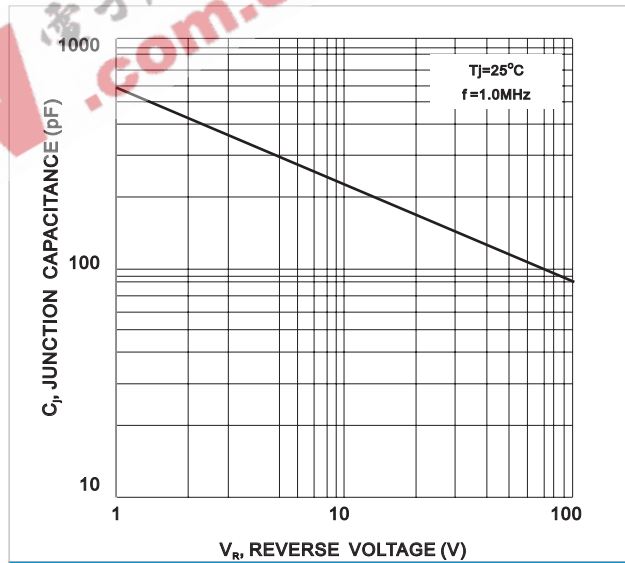


FIG.4-TYPICAL JUNCTION CAPACITANCE