KBJ10005~KBJ1010

SILICON BRIDGE RECTIFIERS

Voltage Range 50 to 1000 Volts
Current 10.0 Amperes

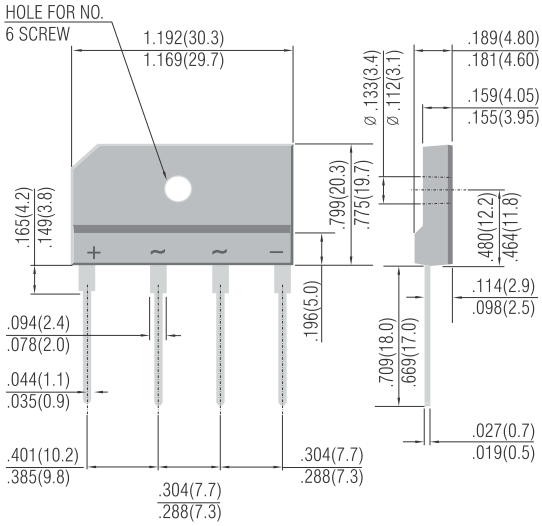
Features

* 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: 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.
Weight: 7.056g

KBJ



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

PARAMETER	SYMBOL	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	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 Tc =55℃	I_{AV}	10							A
Non-repetitive Peak Forward Surge Current at Rated Load	I_{FSM}	180							A
Maximum Forward Voltage per Bridge Element at 10A Specified Current	V_F	1.1							V
Maximum Reverse Leakage Current at Raed @ TA=25℃	I_R	10.0							uA
Typical Thermal Resistance per leg (Note) R_{QJC}	R_{QJC}	1.2							℃ / W
Operating Temperature Range	T_A	-50 to +125							℃
Storage Temperature Range	T_{STG}	-50 to + 150							℃

NOTES:

1. Device mounted on 100mm * 100mm * 1.6mm Cu Plate Heatsink.

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Rating and Characteristic Curves

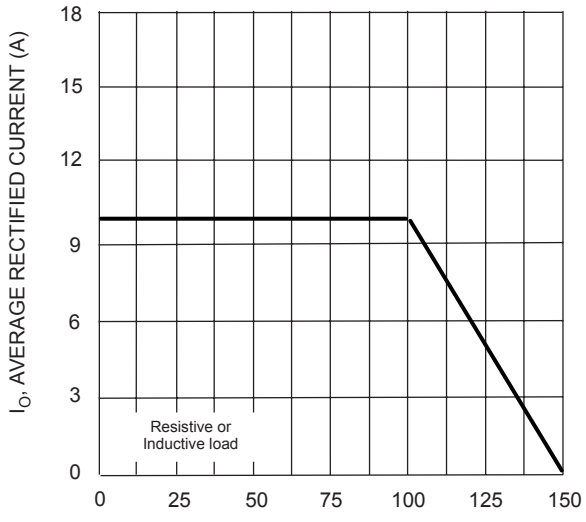

Fig. 1 Forward Current Derating Curve

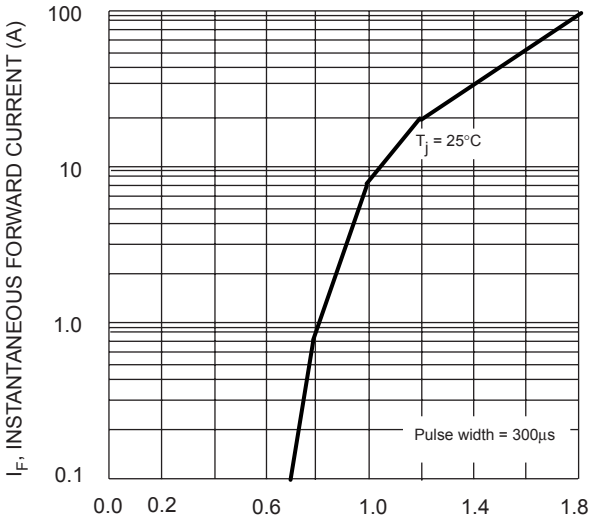

Fig. 2 Typical Fwd Characteristics, per element

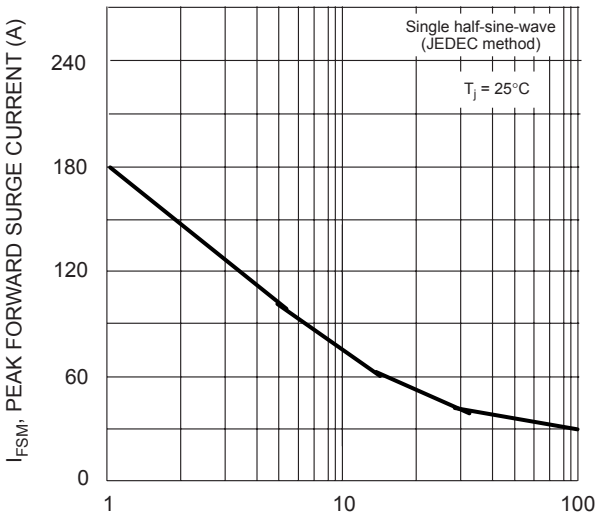

Fig. 3 Maximum Non-Repetitive Surge Current

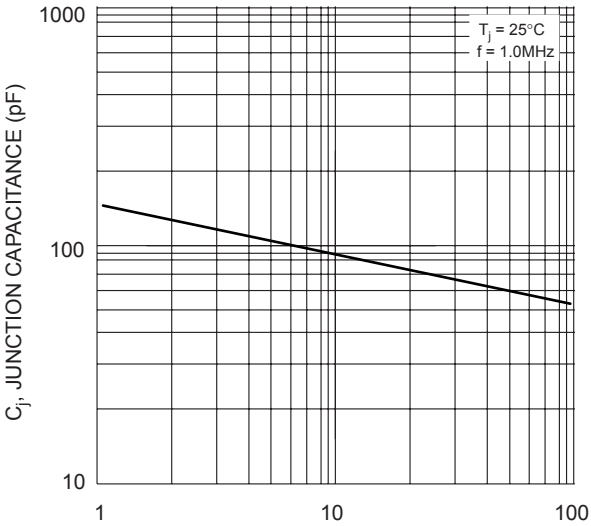

Fig. 4 Typical Junction Capacitance