

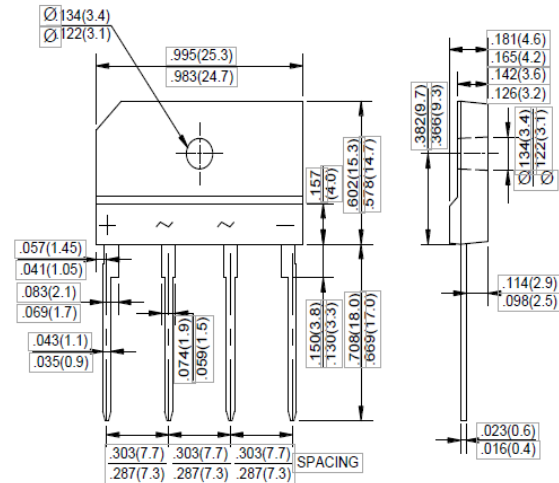


REVERSE VOLTAGE - **50 to 1000**Volts
FORWARD CURRENT - **15.0** Amperes

FEATURES

- Surge overload rating -125 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Mounting position: Any

KBJ4



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%

CHARACTERISTICS	SYMBOL	KBJ 15005	KBJ 1501	KBJ 1502	KBJ 1504	KBJ 1506	KBJ 1508	KBJ 1510	UNIT
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 (with heatsink Note 2) Rectified Current @ T _c =100°C (without heatsink)	I _(AV)	15 3.2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	240							A
Maximum Forward Voltage at 2.0A DC	V _F	1.1							V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10 500							uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	240							A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	60							pF
Typical Thermal Resistance (Note2)	R _{θJC}	0.8							°C/W
Operating Temperature Range	T _J	-55to+150							°C
Storage Temperature Range	T _{STG}	-55to+150							°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 50mm*50mm*1.6mm cu plate heatsink.



FIG.1 – PEAK FORWARD SURGE CURRENT

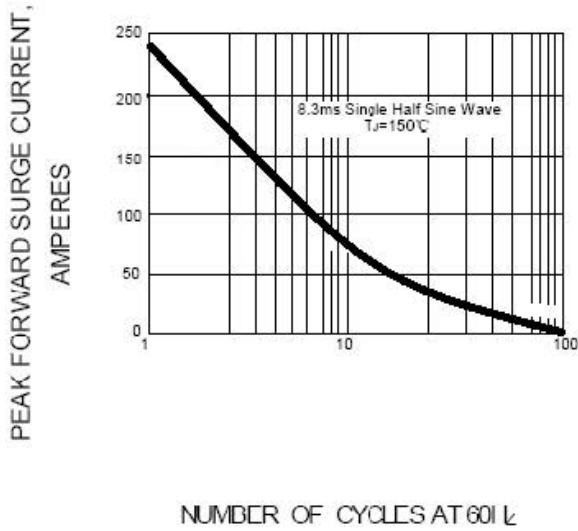


FIG.2 – FORWARD DERATING CURVE

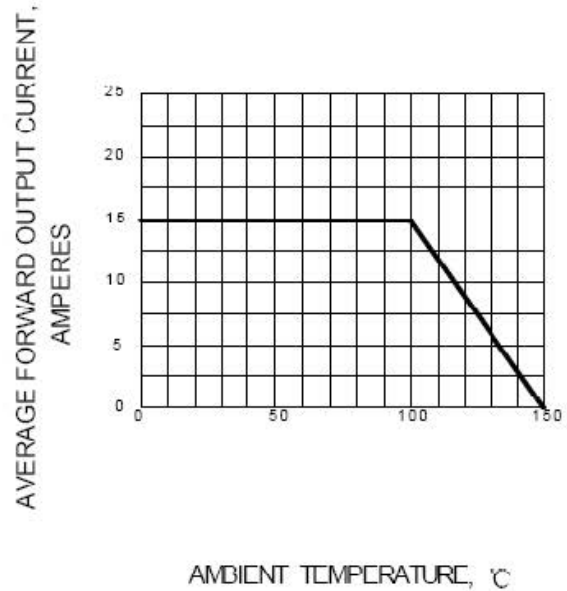


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

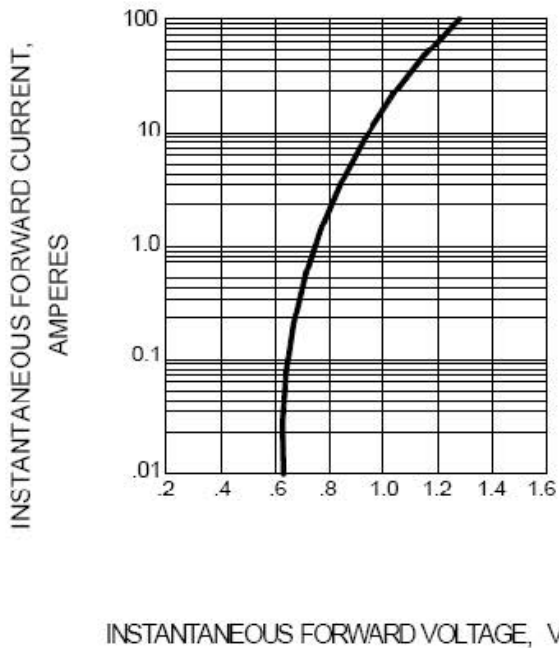
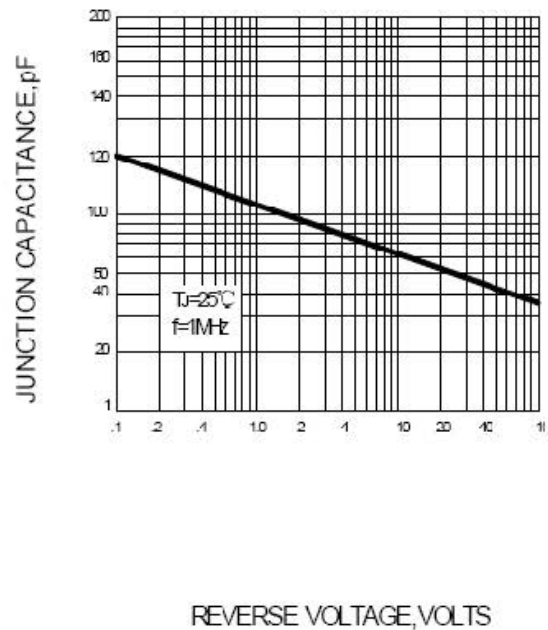


FIG.4 – TYPICAL JUNCTION CAPACITANCE



Device	Package	Shipping
KBJ15005--KBJ1510	KBJ4	250Units/Box