KBJ10005 THRU KBJ1010

RoHS COMPLIANT

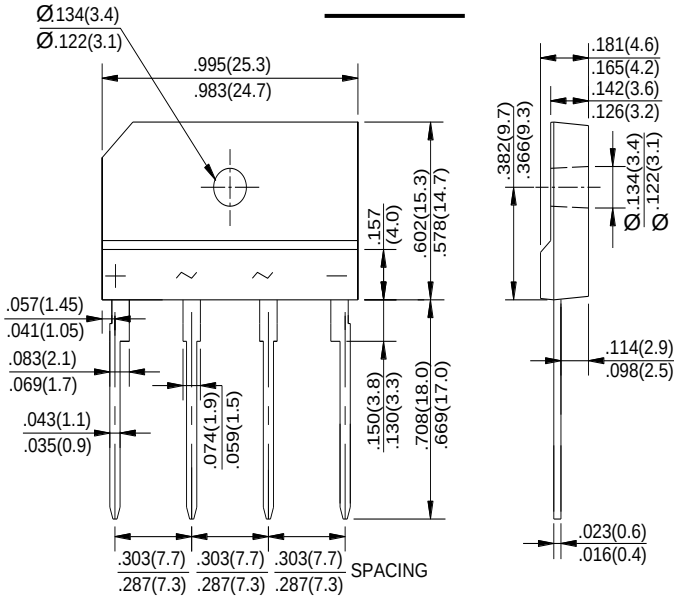
REVERSE VOLTAGE - **50** to **1000**Volts
FORWARD CURRENT - **10.0** Amperes

GLASS PASSIVATED
BRIDGE RECTIFIERS

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 postition:Any

KBJ4



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	KBJ10005	KBJ1001	KBJ1002	KBJ1004	KBJ1006	KBJ1008	KBJ1010	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	30	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℃ (without heatsink)	$I_{(AV)}$	10 3							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	170							A
Maximum Forward Voltage at 2.0A DC	V_F	1.1							V
Maximum DC Reverse Current @ T_J=25℃ at Rated DC Blocking Voltage @ T_J=125℃	I_R	5.0 500							uA
I^2t Rating for Fusing (t<8.3ms)	I^2t	120							A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	45							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	2.2							℃/W
Operating Temperature Range	T_J	-55to+150							℃
Storage Temperature Range	T_{STG}	-55to+150							℃

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.

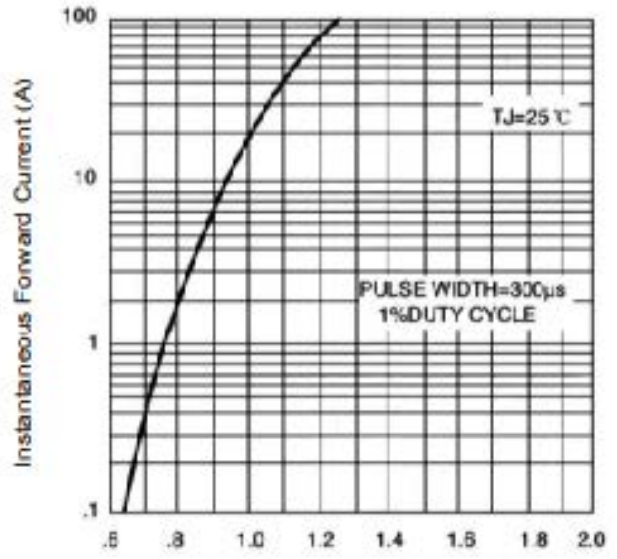


Figure 1. Typical Instantaneous Forward Characteristics Per Element

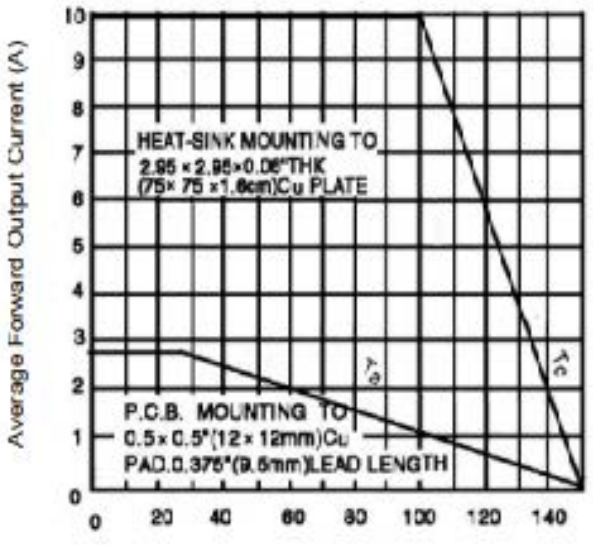


Figure 2. Forward Output Current Derating Curve

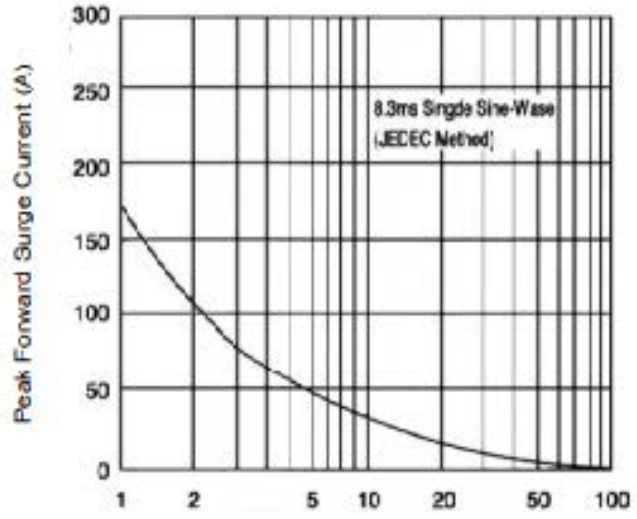


Figure 3. Maximum Non Repetitive Forward Surge Current Per Element

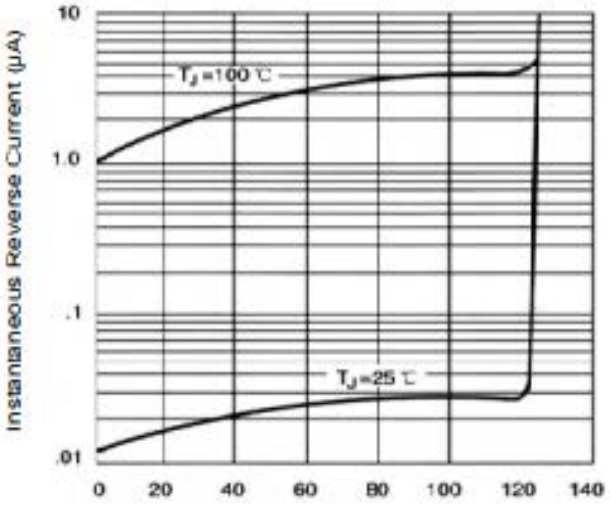


Figure 4. Typical Reverse Characteristics Per Element