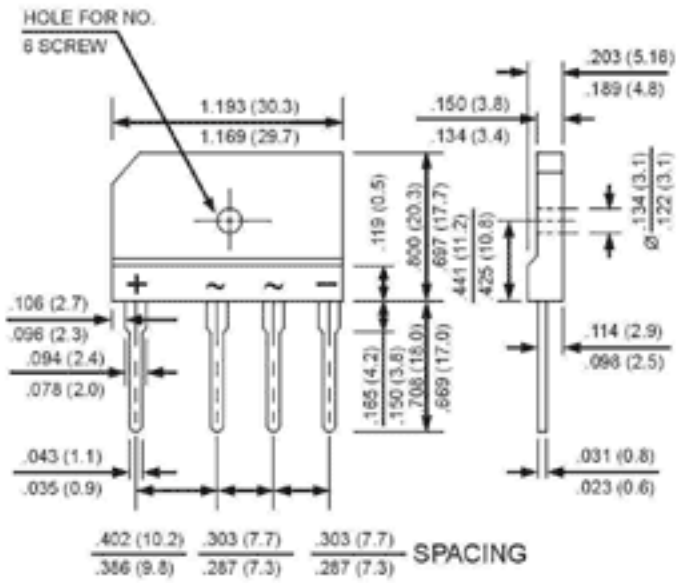
KBJ15A thru KBJ15M

SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts
FORWARD CURRENT - **15** Amperes

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0



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 15A	KBJ 15B	KBJ 15D	KBJ 15G	KBJ 15J	KBJ 15K	KBJ 15M	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)	$I_{(AV)}$	15.0 3.2							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on reated load (JEDEC Method)	I_{FSM}	240							A
Maximum Forward Voltage at 7.5A DC	V_F	1.0							V
Maximum DC Reverse Current @T_J= 25 °C at Rated DC Blocking Voltage @T_J=125°C	I_R	10 500							uA
I^2t Rating for fusing (t<8.3ms)	I^2t	240							A^2S
Typical Junction Capacitance per element (Note 1)	C_J	60							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	0.8							°C/W
Operating Temperature Range	T_J	-40 to +125							°C
Storage Temperature Range	T_{STG}	-40 to +125							°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 300mm X 300mm X 1.6mm Cu Plate Heatsink.