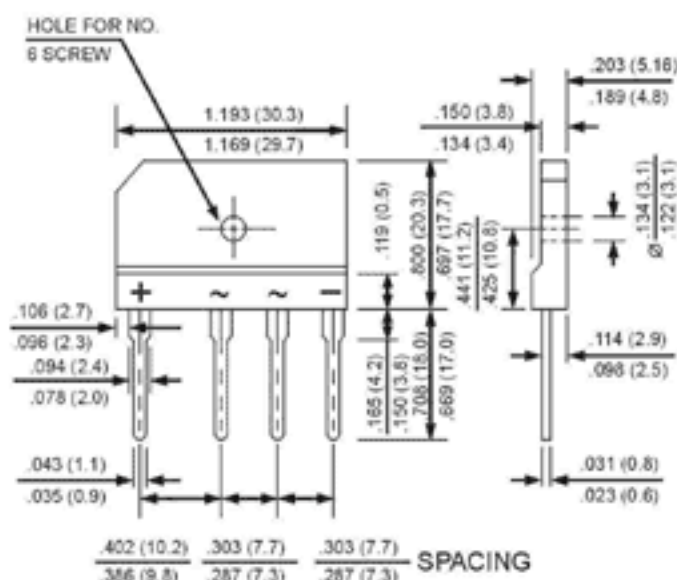


**SILICON BRIDGE RECTIFIERS**
**REVERSE VOLTAGE - 50 to 1000 Volts**  
**FORWARD CURRENT - 25 Amperes**
**FEATURES**

- 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 25A	KBJ 25B	KBJ 25D	KBJ 25G	KBJ 25J	KBJ 25K	KBJ 25M	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T <sub>c</sub> =100°C (without heatsink)	I <sub>AV</sub>	25.0 4.2							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400							A
Maximum Forward Voltage at 12.5A DC	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current @T <sub>J</sub> = 25 °C at Rated DC Blocking Voltage @T <sub>J</sub> =125°C	I <sub>R</sub>	10 500							uA
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t	510							A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	85							pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	0.6							°C/W
Operating Temperature Range	T <sub>J</sub>	-40 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-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.