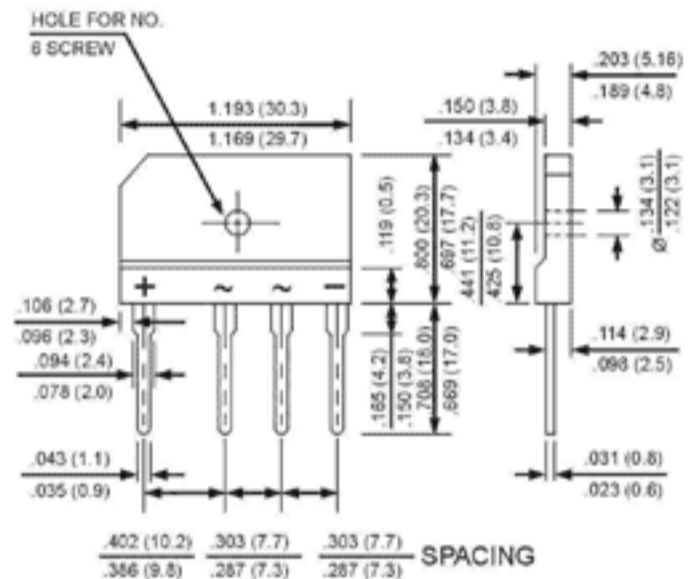


SILICON BRIDGE RECTIFIERS
REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 8.0 Amperes
FEATURES

- 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



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 8A	KBJ 8B	KBJ 8D	KBJ 8G	KBJ 8J	KBJ 8K	KBJ 8M	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 Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _C =100°C (with heatsink Note 2) (without heatsink)	I _{AV}					8.0			A
						2.9			
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}					200			A
Maximum Forward Voltage at 4.0A DC	V _F					1.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =125°C	I _R					5.0			uA
						500			
I ² t Rating for fusing (t<8.3ms)	I ² t					120			A ² S
Typical Junction Capacitance per element (Note 1)	C _J					55			pF
Typical Thermal Resistance (Note 2)	R _{θJC}					1.6			°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 100mm x 100mm x 1.6mm Cu Plate Heatsink.