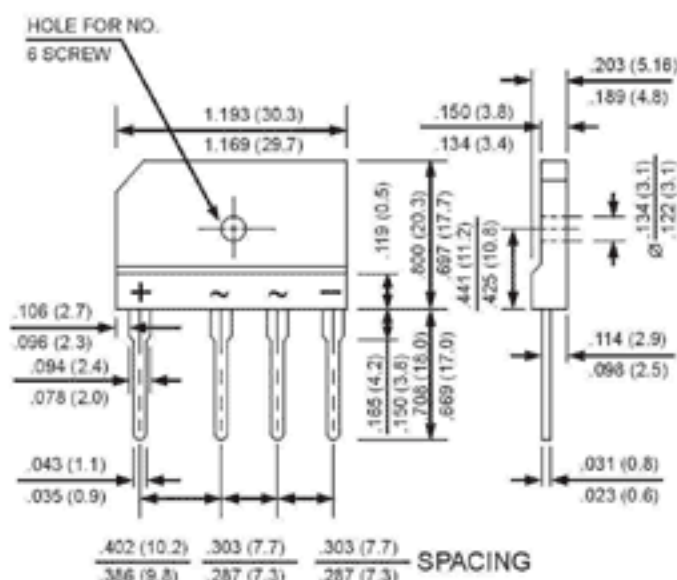


SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 20 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 20A	KBJ 20B	KBJ 20D	KBJ 20G	KBJ 20J	KBJ 20K	KBJ 20M	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}					20.0 3.6				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 10.0A 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 ² t Rating for fusing (t<8.3ms)	I ² t					240				A ² S
Typical Junction Capacitance per element (Note 1)	C _J					60				pF
Typical Thermal Resistance (Note 2)	R _{θJC}					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.