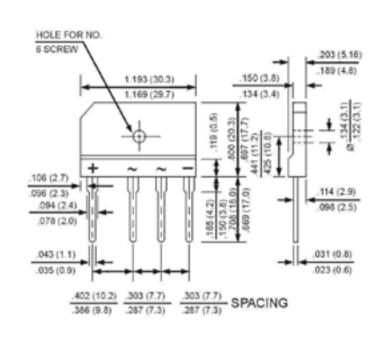


## SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 6.0 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 6A	KBJ 6B	KBJ 6D	KBJ 6G	KBJ 6J	KBJ 6K	KBJ 6M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	Voc	50	100	200	400	600	800	1000	٧
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=100°C (without heatsink)	l(AV)	6.0 2.8							А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	IFSM	170							A
Maximum Forward Voltage at 3.0A DC	VF		1.0						
Maximum DC Reverse Current @T = 25 °C at Rated DC Blocking Voltage @T = 125 °C	IR	5.0 500							uĂ
I t Rating for fusing (t<8.3ms)	l²t		120						
Typical Junction Capacitance per element (Note 1)	Cı	55							pF
Typical Thermal Resistance (Note 2)	Reuc	1.8							°C/W
Operating Temperature Range	TJ	-40 to +125							°C
Storage Temperature Range	Тѕтс	-40 to +125							°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.