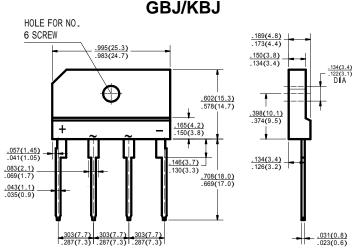


# SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS KBJ6005 thru KBJ610 50 to 1000V 6.0A

### **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-O



Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase , half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

		KBJ6005	KBJ601	KBJ 602	KBJ604	KBJ 606	KBJ 608	KBJ 610	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward (with heatsink Note2) Rectified Current @ $T_C = 100^{\circ}$ C (without heatsink)	$V_{(AV)}$	6.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	170							Amp
Maximum DC Forward Voltage at 3.0A DC	$V_{F}$	1.0							Volts
Maximum DC Reverse Current at rated @ $T_A$ =25°C DC Blocking Voltage Per Element @ $T_A$ =125°C	I <sub>R</sub>	5.0 500							uAmp
I <sup>2</sup> t Rating for fusing (t<8.3ms)	$I^2T$	120							$A^2S$
Typical Junction Capacitance ( Note 1)	CJ	55.0							pF
Typical Thermal Resistance	R⊕JC	1.8							°C/W
Operating Temperature Range	$T_J$	-55 to +150							$^{\circ}$ C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							$^{\circ}$

#### Notes

- 1.Measured at 1.0 MHZ and applied reverse voltage of 4.0v DC
- 2. Thermal Resistance Junction to Case

# SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS GBJ/KBJ6A thru GB /KBJ6M 50 to 1000 V 6.0 A

## RATINGS AND CHARACTERISTIC CURVES (GBJ/KBJ6A THRU GBJ/KBJ6M)

