# **KBJ25005 THRU KBJ2510**

### **Glass Passivated Bridge Rectifiers**

## Voltage Range 50 to 1000 Volts Current 25 Amperes

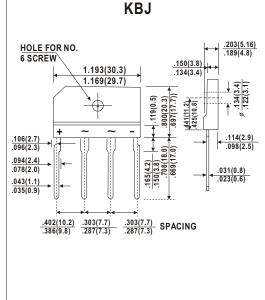
### **Features**

- \* 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

#### **Mechanical Data**

\* Polarity : Symbols molded on body \* Weight : 0.23 ounces, 6.6 grams

\* Mounting plsition : Any



Dimensions in inches and (millimeters)

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

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	KBJ 25005	KBJ 2501	KBJ 2502	KBJ 2504	KBJ 2506	KBJ 2508	KBJ 2510	Units
Maximum Recurrent Peak Reverse Voltage	$V_{\sf RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{\scriptscriptstyle RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	<b>V</b> <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward(with heatsink Note2) Rectified Current @ T <sub>c</sub> = 100°C	I <sub>(AV)</sub>	25.0 4.2						А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I <sub>FSM</sub>	350						А	
Maximum Forward Boltage at 2.0A DC	$V_{\scriptscriptstyle F}$	1.05						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$	I <sub>R</sub>	10 500						uA	
I' t Rating for fusing(t<8.3ms)	l' <sub>t</sub>	510						A'S	
Typical Junction Capacitance per element( Note1 )	C,	85						pF	
Typical Thermal Resistance( Note 2 )	R <sub>eJC</sub>	0.6						°C/W	
Operating Temperature Range	T,	-55 to +150						°C	
Storage Temperature Range	$T_{stg}$	-55 to +150						°C	

#### NOTES

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC.
- 2.Device mounted on 300mm x 300 mm X1.6mm Cu Plate Heatsink

# **KBJ25005 THRU KBJ2510**

**Glass Passivated Bridge Rectifiers** 

# Voltage Range 50 to 1000 Volts Current 25 Amperes

### RATINGS AND CHARACTERISTIC CURVES (KB25005 THRU KBJ2510)

