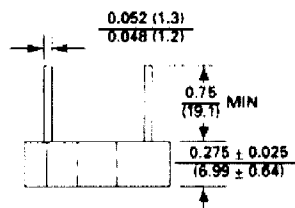
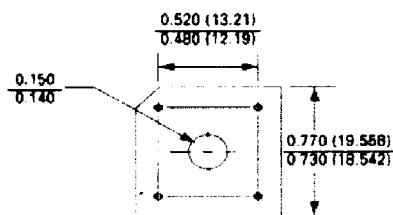


## **KBPC8 ...KBPC810** **8.0A SINGLE - PHASE SILICON BRIDGE**

### **Features**

- Surge overload rating - 125 Amperes peak
- Low forward voltage drop
- Mounting Position: Any
- Small size; simple installation
- Silver Plated Copper leads
- Ceramic case on BR8 series
- U/L recognized file # 142814

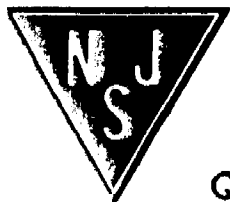
**VOLTAGE RANGE**  
50V to 1000 Volts PRV  
**CURRENT**  
8 Amperes



Polarity shown on side of case;  
positive lead by beveled corner.

Dimensions in inches and (millimeters)

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Max RMS Bridge Input Voltage	35	70	140	280	420	560	700	V	
Maximum Average Forward Rectified Output Current at								A	
$T_c = 100\text{ }^\circ\text{C}^*$								8.0	
$T_A = 40\text{ }^\circ\text{C}^{**}$								3.0	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load								125	A
Maximum Forward Voltage Drop per Bridge element at 4.0A Peak								1.1	V
Maximum Reverse Current at Rated DC Blocking Voltage per element								10.0	$\mu\text{A}$
$T_A = 25\text{ }^\circ\text{C}$								1.0	mA
$T_A = 100\text{ }^\circ\text{C}$									
Operating Temperature Range $T_c$								-55 to + 125	$^\circ\text{C}$
Storage Temperature Range $T_A$								-55 to + 150	$^\circ\text{C}$

NOTES: \* Unit mounted on metal chassis

\*\* Unit mounted on P.C. board