

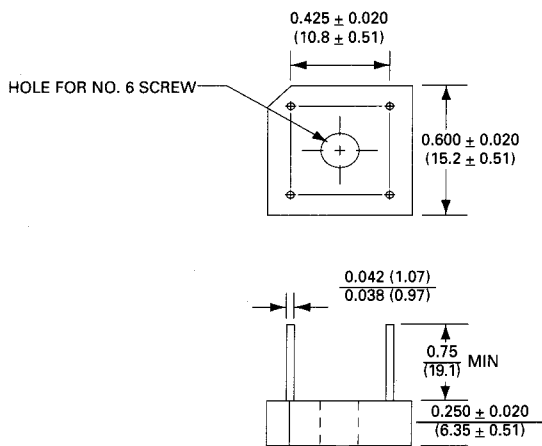
# KBPC6 ...KBPC610

## 6.0A SINGLE - PHASE SILICON BRIDGE

### Features

- Surge overload rating - 150 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver Plated Copper leads
- Mounting Position: Any
- U/L recognized file # 142814

VOLTAGE RANGE  
50 to 1000 Volts PRV  
CURRENT  
6 Amperes



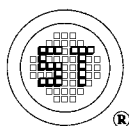
Polarity shown on side of case;  
positive lead by beveled corner.  
Dimensions in inches and (millimeters)

### 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%.

	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	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								
$T_C = 100\text{ }^\circ\text{C}^*$ $T_A = 25\text{ }^\circ\text{C}^{**}$							6.0	A
							3.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load							150	A
Maximum Forward Voltage Drop per element at 3.0A Peak							1.0	V
Maximum Reverse Current at Rated DC Blocking Voltage per element							10.0	$\mu\text{A}$
							1.0	mA
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



**SEMTECH ELECTRONICS LTD.**  
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### RATING AND CHARACTERISTICS CURVES

KBPC6 SERIES

