

# KBPC25005 THRU KBPC2510

## SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 25.0A



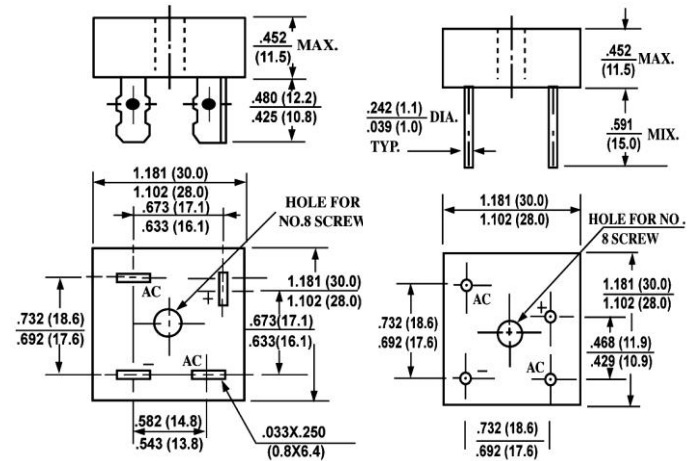
### FEATURE

Surge overload rating: 300 A peak  
High case dielectric strength  
1/4" Universal faston terminal  
and  $\phi$ 40ml lead-wire available

### MECHANICAL DATA

Polarity: Polarity symbol marked on body  
Mounting: Hole thru # 8 screw  
Case: metal or plastic

### KBPC/KBPCW



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	KBPC25 005	KBPC25 01	KBPC25 02	KBPC25 04	KBPC25 06	KBPC25 08	KBPC25 10	units	
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V	
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current at T <sub>c</sub> =55°C	I <sub>f(av)</sub>	25.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	300.0								A
* Maximum Instantaneous Forward Voltage at forward current 12.5A DC	V <sub>f</sub>	1.1								V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I <sub>r</sub>	10.0 500.0								$\mu$ A $\mu$ A
Operating Temperature Range	T <sub>j</sub>	-55 to +150								°C
Storage and Operation Junction Temperature	T <sub>stg</sub>	-55 to +150								°C

RATINGS AND CHARACTERISTIC CURVES KBPC25005 THRU KBPC2510

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

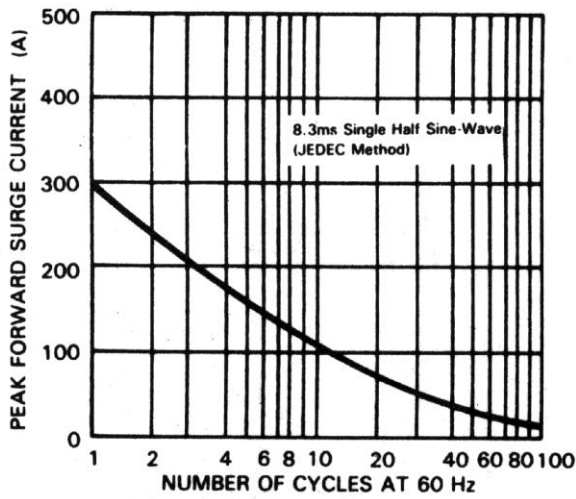


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

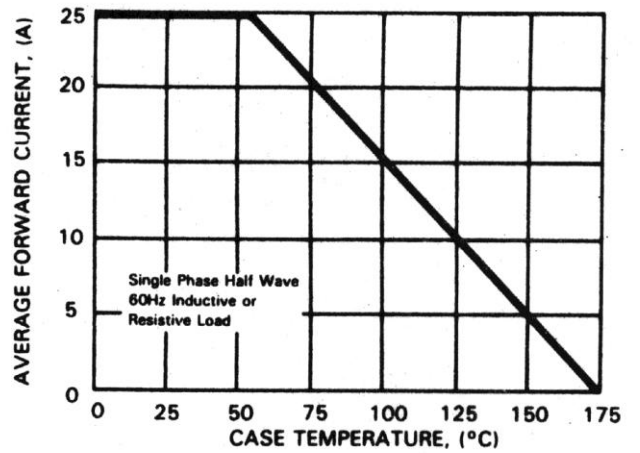


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

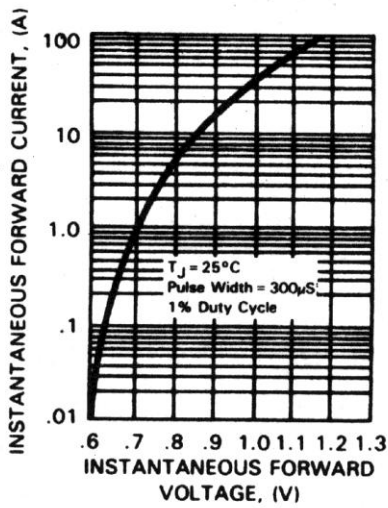


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

