

# KBPC15005 THRU KBPC1510

## SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 TO 1000V      CURRENT: 15.0A



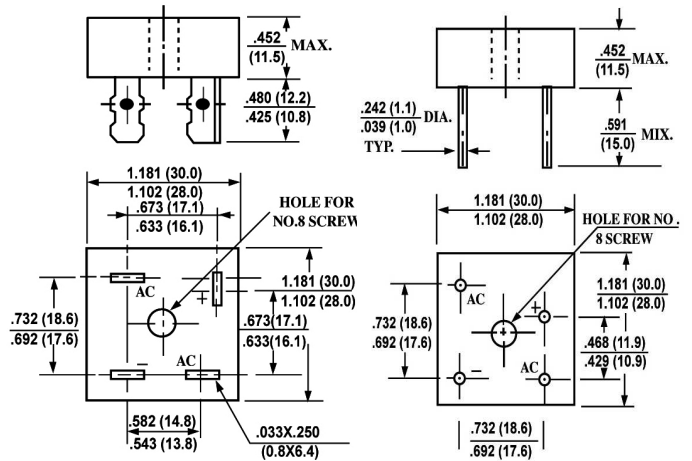
### FEATURE

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, for capacitive load, derate current by 20%)

	SYMBOL	KBPC15 005	KBPC15 01	KBPC15 02	KBPC15 04	KBPC15 06	KBPC15 08	KBPC15 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>	15.0								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 7.5A 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								μA μA
Operating Temperature Range	T <sub>j</sub>	-55 to +150								°C
Storage and Operation Junction Temperature	T <sub>stg</sub>	-55 to +150								°C

Note:  
Suffix "W" for wire type

RATINGS AND CHARACTERISTIC CURVES KBPC15005 THRU KBPC1510

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FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

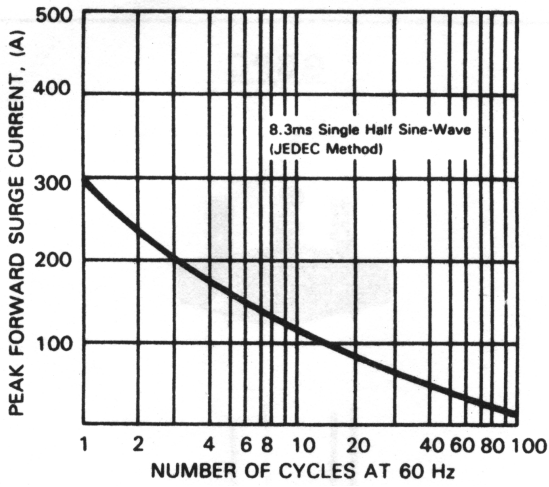


FIG. 2 - TYPICAL FORWARD CURRENT OPERATING CURVE

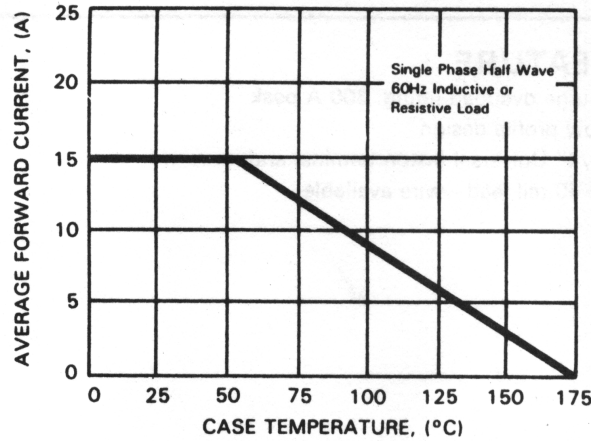


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

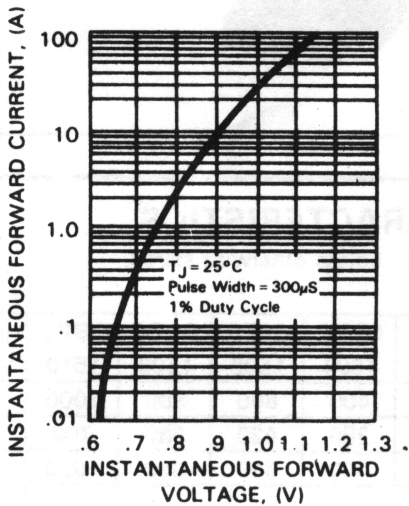


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

