

KBPC25005 THRU KBPC2510

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 25.0A



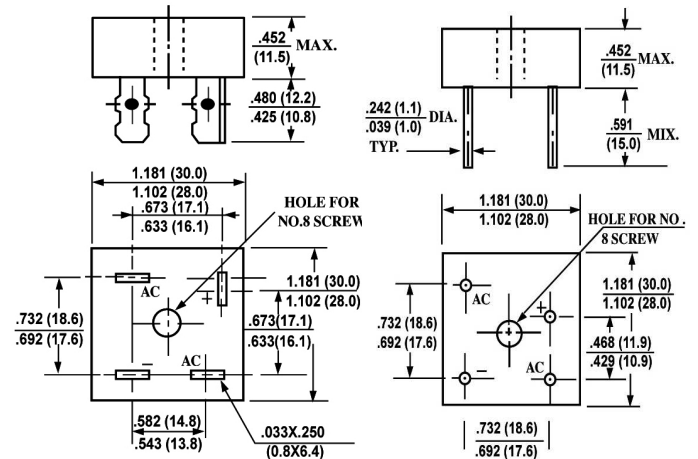
FEATURE

Surge overload rating: 300 A peak
High case dielectric strength
1/4" Universal faston terminal
and $\phi 40$ ml 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	KBPC25 005	KBPC25 01	KBPC25 02	KBPC25 04	KBPC25 06	KBPC25 08	KBPC25 10	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _c =55°C	I _{f(av)}	25.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	300.0							A
* Maximum Instantaneous Forward Voltage at forward current 12.5A DC	V _f	1.1							V
Maximum DC Reverse Current T _a =25°C at rated DC blocking voltage T _a =100°C	I _r	10.0 500.0							μ A μ A
Operating Temperature Range	T _j	-55 to +150							°C
Storage and Operation Junction Temperature	T _{stg}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES KBPC25005 THRU KBPC2510

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

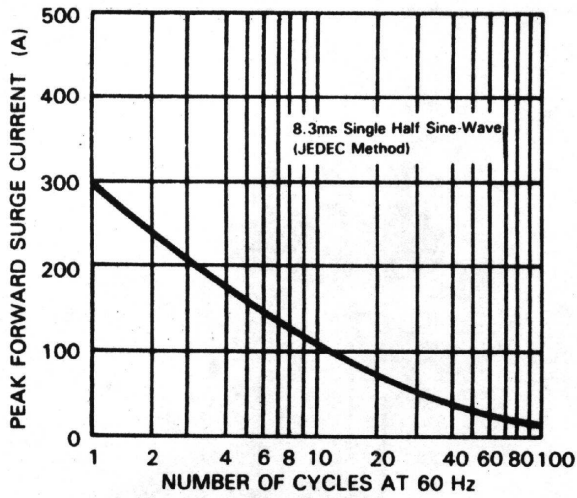


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

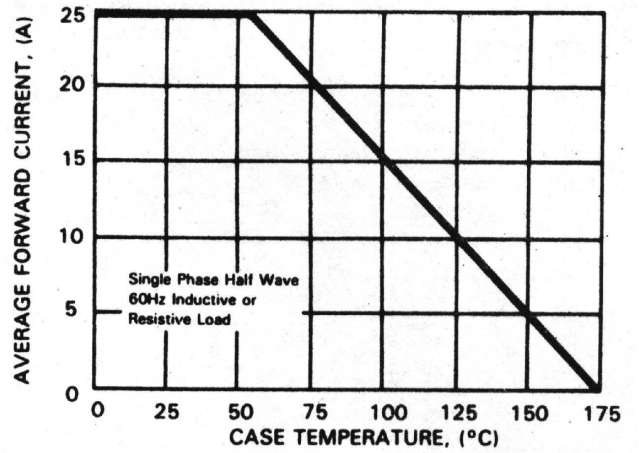


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

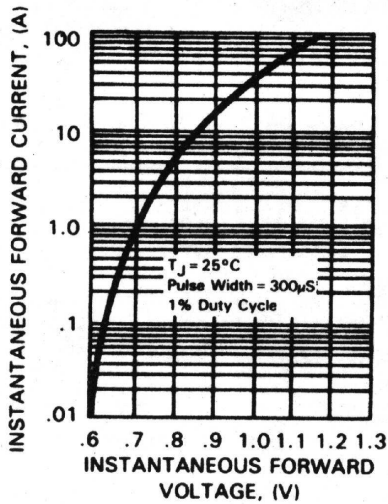


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

