KBPC8005 THRU KBPC810

SINGLE PHASE SILICON BRIDGE RECTIFIER

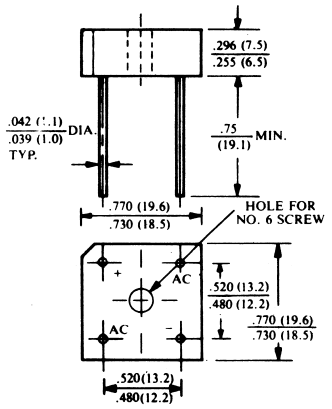
Voltage: 50 TO 1000V CURRENT:8.0A

FEATURES

Surge overload rating: 125A peak

High case dielectric strength

KBPC8



Dimensions in inches and (millimeters)

MECHANICAL DATA

. **Terminal**: Plated leads solderable per
MIL-STD 202E, method 208C

. **Case**: UL-94 Class V-0 recognized Flame Retardant Epoxy

. **Polarity**: Polarity symbol marked on body

. **Mounting** : Hole thru for #6 screw

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃ , unless otherwise stated,

for capacitive load, derate current by 20%)

	SYMBOL	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified current at Ta=25℃	If(av)	8.0 6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	125							A
Maximum Instantaneous Forward Voltage at forward current 4.0A DC	Vf	1.1							V
Maximum DC Reverse Voltage Ta=25℃	Ir	10.0							μA
at rated DC blocking voltage Ta=100℃		200							μA
Operating Temperature Range	Tj	-55 to +125							℃
Storage and operation Junction Temperature	Tstg	-55 to +150							℃

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RATINGS AND CHARACTERISTIC CURVES KBPC8005 THRU KBPC810

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

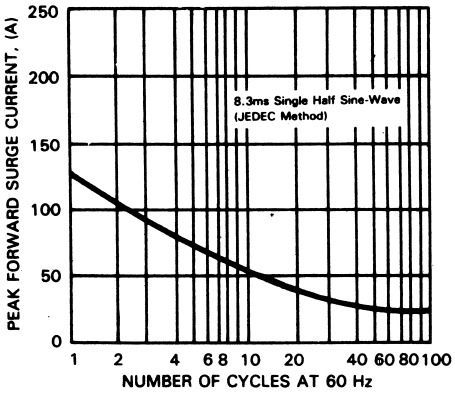

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

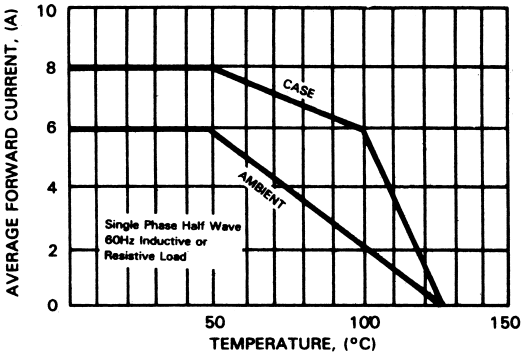

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

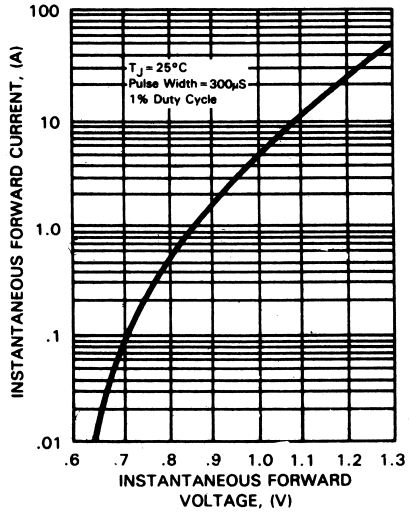

FIG.4-TYPICAL REVERSE CHARACTERISTICS