KBP005 THRU KBP10

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE:50 TO 1000V CURRENT:2.0A

GULF SBMI

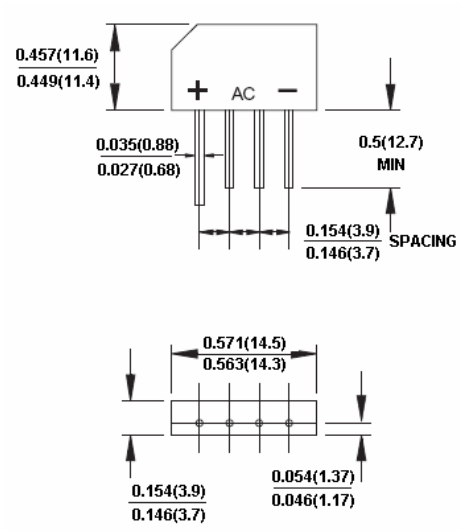
FEATURE

Ideal for printed circuit board
Surge overload rating:60 A peak
High case dielectric strength

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 position: any

KBP



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	KBP 005	KBP 01	KBP 02	KBP 04	KBP 06	KBP 08	KBP 10	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 =50°C	If(av)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	60.0							A
Maximum Forward Voltage at forward current 2.0A DC	Vf	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	10.0 1.0							µA mA
Operating Temperature Range	Tj	-55 to +125							°C
Storage and Operating Junction Temperature	Tstg	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES KBP005 THRU KBP10

1

FIG. 1 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

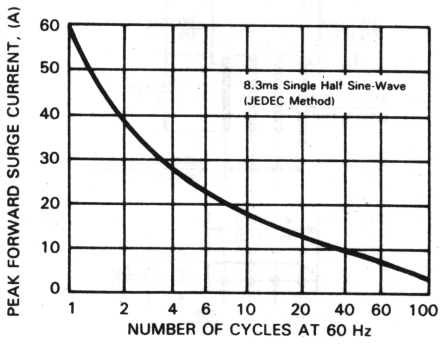


FIG. 2 – TYPICAL FORWARD CURRENT DERATING CURVE

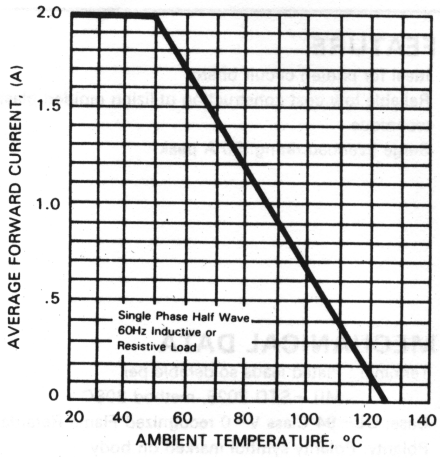


FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

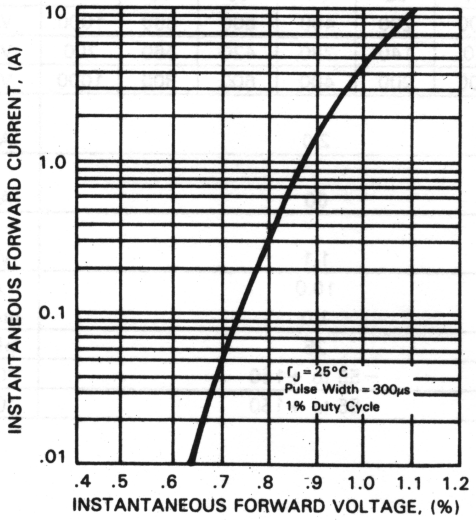


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

