

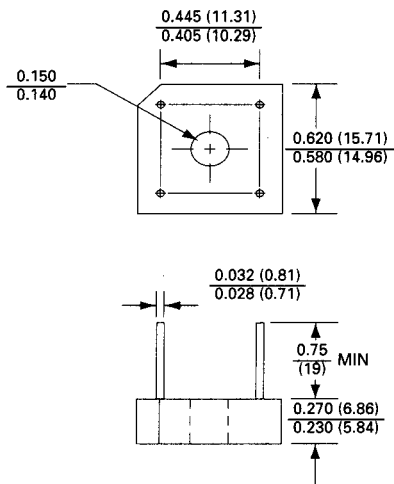
KBPC1005 ...KBPC110

3.0A SINGLE - PHASE SILICON BRIDGE

Features

- Surge overload rating - 50 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Tinned copper leads
- Mounting Position: Any
- Mounting: Thru hold for #6 screw
- U/L recognized file # 142814

VOLTAGE RANGE
50 to 1000 Volts PRV
CURRENT
3.0 Amperes



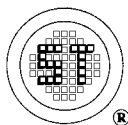
Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Max RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Output Currentat	<div>$T_C = 50\text{ }^{\circ}\text{C} *$3.0A</div> <div>$T_C = 100\text{ }^{\circ}\text{C} *$2.0A</div> <div>$T_A = 50\text{ }^{\circ}\text{C} **$2.0A</div>							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load	50.0							A
Maximum Forward Voltage Drop per Bridge Element at 1.5A Peak	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element	<div>$T_A = 25\text{ }^{\circ}\text{C}$10.0 μA</div> <div>$T_A = 100\text{ }^{\circ}\text{C}$1.0 mA</div>							
Operating Temperature Range T_C	-55 to + 125							$^{\circ}\text{C}$
Storage Temperature Range T_A	-55 to + 150							$^{\circ}\text{C}$

NOTES: * Unit mounted on metal chassis
** Unit mounted on P.C. board



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KBPC1005 ...KBPC110
3.0A SINGLE - PHASE SILICON BRIDGE

RATING AND CHARACTERISTICS CURVES
KBPC1 SERIES

FIG. 1-MAXIMUM FORWARD SURGE CURRENT

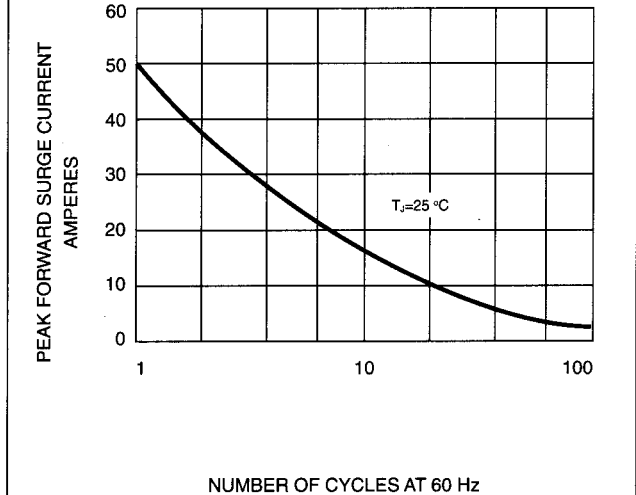


FIG. 2-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

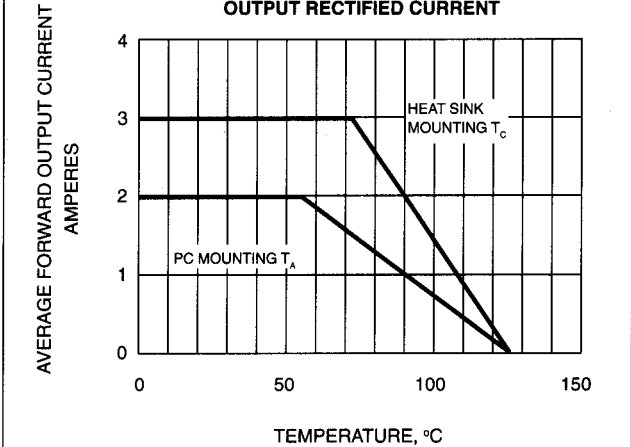


FIG. 3-TYPICAL FORWARD
CHARACTERISTICS

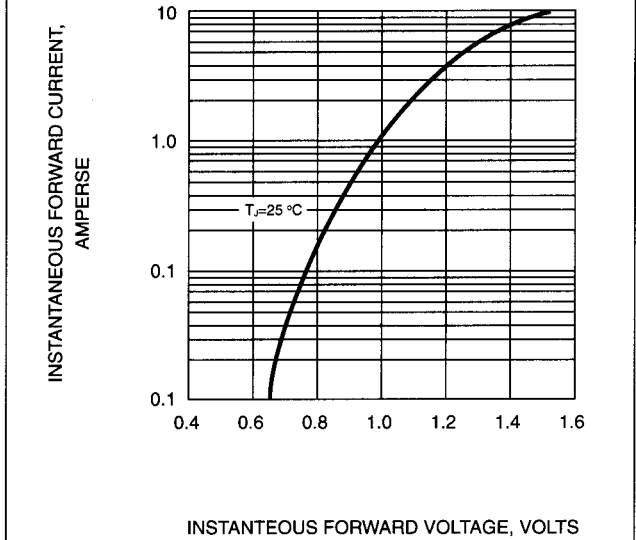


FIG. 4-TYPICAL REVERSE
CHARACTERISTICS

