# KBPC80X SERIES

## SINGLE-PHASE SILICON BRIDGE RECTIFIER

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## **KBPC8005 THRU KBPC810**

#### SINGLE-PHASE SILICON BRIDGE RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 8.0 AMPERE

#### **FEATURES**

· Reliable low cost construction

· Ideal for printed circuit board

· Low forward voltage drop

· Low reverse leakage current

· High surge current capability

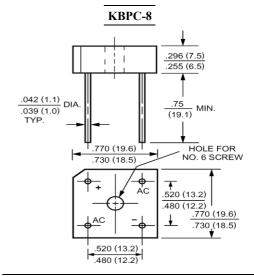
#### **MECHANICAL DATA**

Case: Molded plastic, KBPC-8

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.18ounce, 5.2gram



Dimensions in inches and (millimeters)

#### Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward	т .	8.0							A
Rectified Current at T <sub>C</sub> =50	I <sub>(AV)</sub>								Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	$I_{FSM}$	I <sub>FSM</sub> 250							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage Drop per Element	V	1.0							Volts
at 4.0A DC and 25	$V_{\mathrm{F}}$								
Maximum Reverse Current at T <sub>A</sub> =25		10.0							uAmp
at Rated DC Blocking Voltage T <sub>A</sub> =100	$I_R$	500							
Typical Junction Capacitance (Note 1)	$C_{J}$	200							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	21							<b>/W</b>
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	6							<b>/W</b>
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg				-55 to +12	5			

#### NOTES:

- 1- Measured at 1  $MH_Z$  and applied reverse voltage of 4.0 VDC.
- 2- Unit mounted on 8.6 x 8.6 x 0.24" thick (22 x 22 x 0.6cm) Al. Plate
- 3- Unit mounted on P.C.B. at 0.375" (9.5mm) lead length with  $0.5 \times 0.5$ " (12 x 12mm) copper pads

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#### RATINGS AND CHARACTERISTIC CURVES

