

# KBPC10005 THRU KBPC1010

#### SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 10.0 Ampere

## **FEATURES**

Rating to 1000V PRV

Surge overload rating to 240 Amperes peak

Ideal for printed circuit board

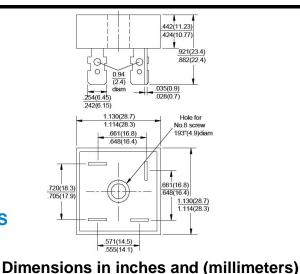
Reliable low cost construction utilizing molded

plastic technique results in inexpensive product

Lead solderable per MIL-STD-202 method 208

Mounting: thru hole for # 10 screw Mounting

# **KBPC**



-55 to +150

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified,

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

Fo

Storage Temperature Range

For capacitive load derate current by 20%									
PARAMETER	SYMBOL	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	1006	KBPC 1008	KBPC 1010	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	>
Maximum RMS Voltage	VppM	35	70	1/10	280	420	560	700	V

Maximum RMS Voltage 50 100 200 400 1000 Maximum DC Blocking Voltage 600 800  $V_{DC}$ Maximum Average Forward 10.0 I<sub>F</sub> (AV) And Output Current @ T<sub>A</sub>=50°C Peak Forward Surge Current 8.3ms **I**FSM 240.0 Single half-sine-wave superimposed on rated load Maximum instantaneous forward voltage 1.0 VF at 5.0 A Maximum Reverse Current @ TA=25℃ 5.0 uΑ  $I_R$ at rated DC blocking voltage @TA=125℃ 0.5 mΑ Operating junction temperature range  $T_J$ -55 to +125  $^{\circ}$ C

- 1- Unit mounted on 8.7"×8.7"×0.24" thick (22×22×0.6 cm) Al. plate.
- 2- Unit mounted on P.C.B at 0.375" (9.5mm) lead length with 0.47"×0.47" (12×12mm) copper pads.

Tstg

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 $^{\circ}\!\mathbb{C}$ 

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# RATINGS AND CHARACTERISTIC CURVES

#### FIG.1 - PEAK FORWARD SURGE CURRENT

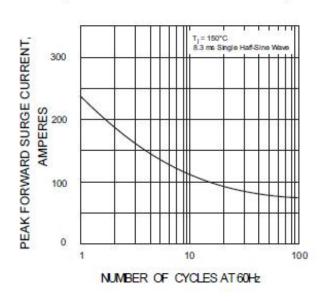
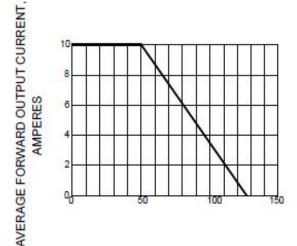
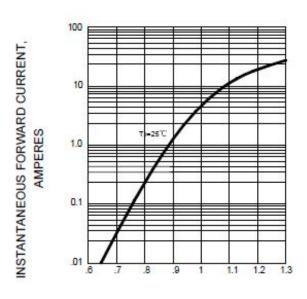


FIG.2 - FORWARD DERATING CURVE

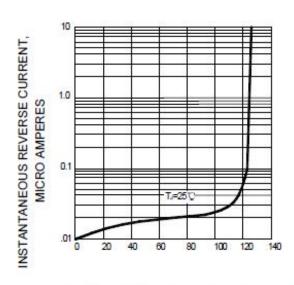


AMBIENT TEMPERATURE, "C

### FIG.3 - TYPICAL FORWARD CHARACTERISTIC



# FIG.4 - TYPICAL REVERSE CHARACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Note: Specifications are subject to change without notice.

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