

# KBPC35005 THRU KBPC3510

Voltage Range  
50 to 1000 Volts  
Current  
35 Amperes

## Single Phase 35 AMPS. Silicon Bridge Rectifiers

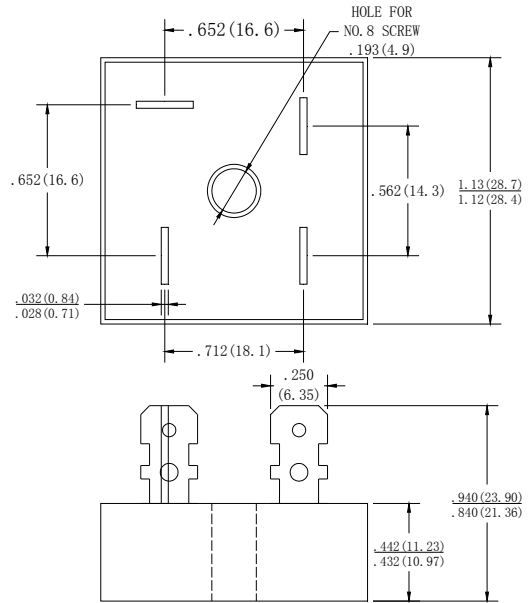
### KBPC

### Features

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:  
260°C / 10 seconds / 0.375" ( 9.5mm )  
lead length at 5 lbs., ( 2.3 kg ) tension

### Mechanical Data

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

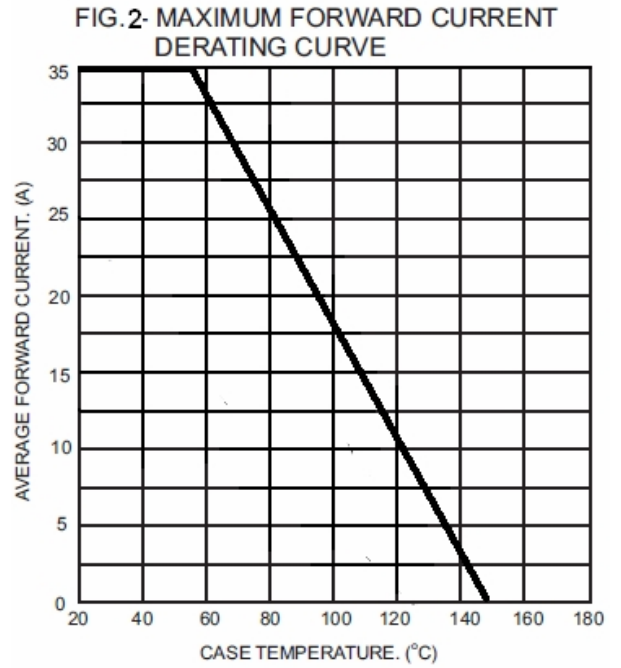
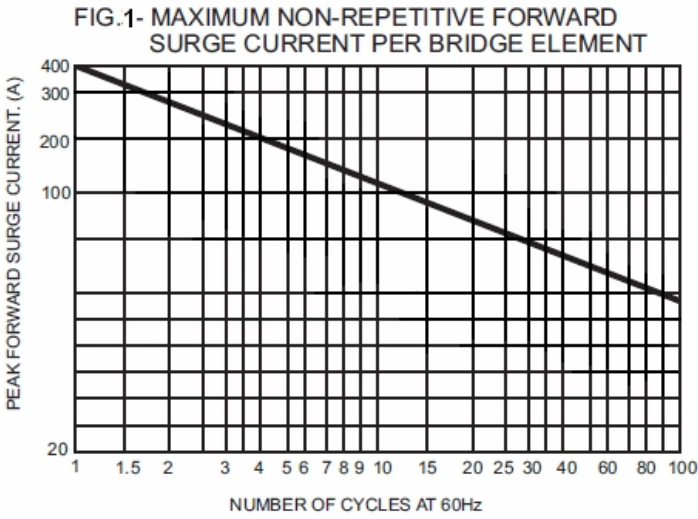
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

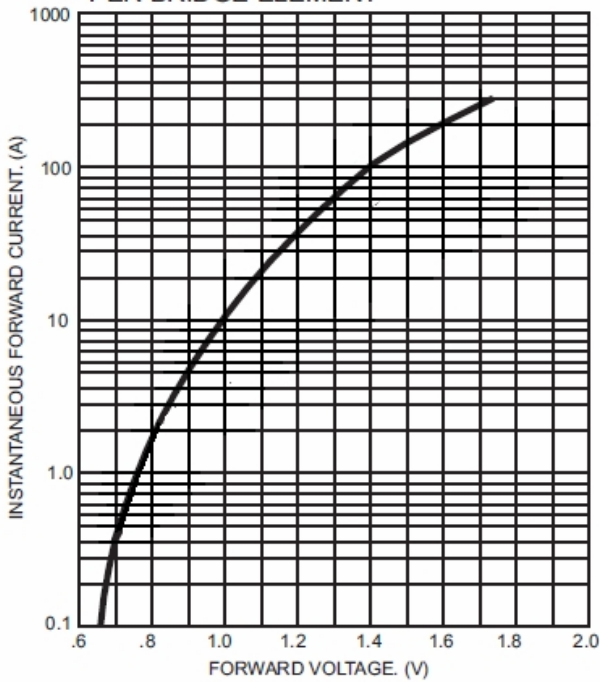
Type Number		KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>c</sub> = 55°C	I(AV)	35							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	400							A
Maximum Instantaneous Forward Voltage @17.5A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at Rated DC Blocking voltage per Element	I <sub>R</sub>	10							μA
Typical Thermal Resistance (Note)	R θ <sub>JC</sub>	2.0							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

**NOTE:** Thermal Resistance from Junction to Case.

# RATING AND CHARACTERISTIC CURVES KBPC35005 THRU KBPC3510



**FIG.3- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**

