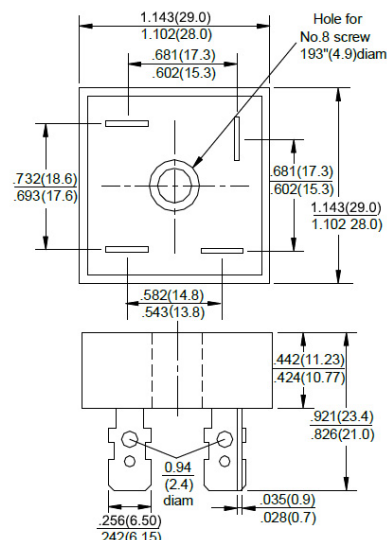


**KBPC50005 THRU KBPC5010****SINGLE-PHASE BRIDGE RECTIFIER****VOLTAGE RANGE 50 to 1000 Volts    CURRENT 50.0 Ampere****FEATURES**

- ◆ High forward surge current capability
- ◆ Integrally molded heatsink provide very low thermal resistance
- ◆ High isolation voltage from case to lugs
- ◆ High temperature soldering guaranteed: 260°C /10 second, at 5 lbs. (2.3kg) tension

**Mechanical Data**

- ◆ Case: Metal case
- ◆ Terminal: Plated 0.25" (6.35mm) lug
- ◆ Polarity: Polarity symbols marked on case
- ◆ Mounting: Thru hole for #8 screw, 20 in.- lbs.Torque Max
- ◆ Weight: 1.02 ounce, 29 gram

**KBPC****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%**

	SYMBOL	KBPC 50005	KBPC 5001	KBPC 5002	KBPC 5004	KBPC 5006	KBPC 5008	KBPC 5010	UNIT	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	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 Rectified Output Current, at T <sub>C</sub> =50°C (Note 1,2)	I <sub>(AV)</sub>	50							Amps	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400							Amps	
Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	664							A <sup>2</sup> S	
Maximum Instantaneous Forward Voltage at 25A	V <sub>F</sub>	1.1							Volts	
Maximum DC Reverse Current at rated DC blocking voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	5.0							μAmps
	T <sub>A</sub> =125°C		1.0							mAmps
Isolation Voltage from case to lugs	V <sub>ISO</sub>	2500							V <sub>AC</sub>	
Typical Thermal Resistance (Note 1,2)	R <sub>θJC</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:** 1. Unit mounted on 9"×3.5"×4.6" (23×9×11.8mm) Al. finned plate.

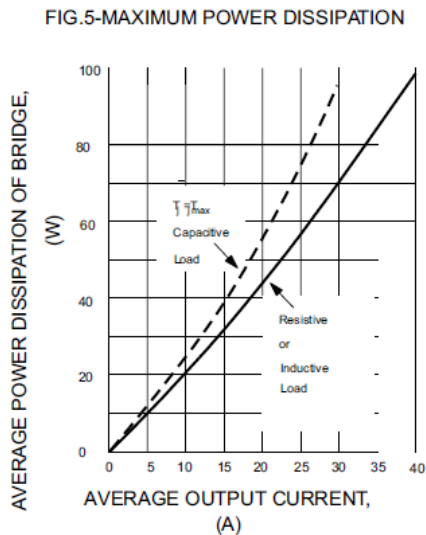
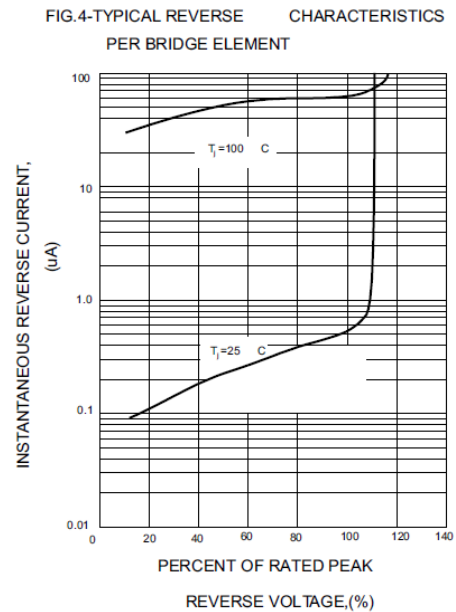
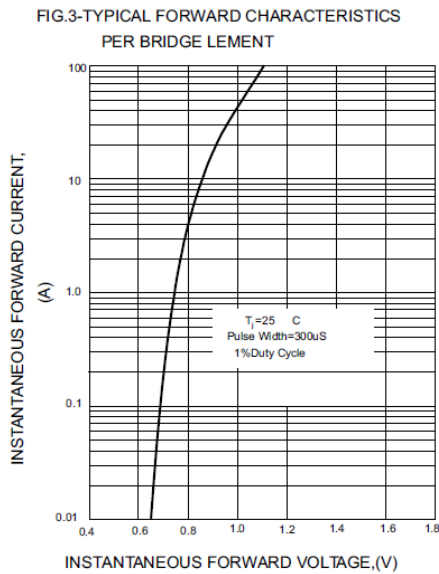
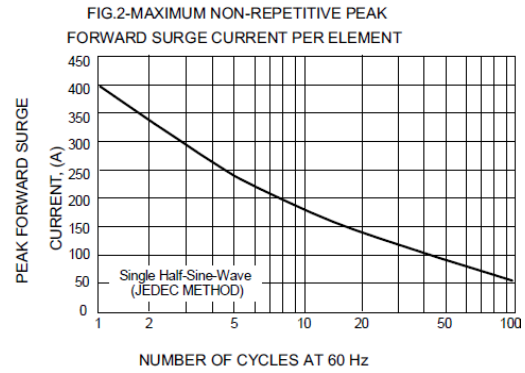
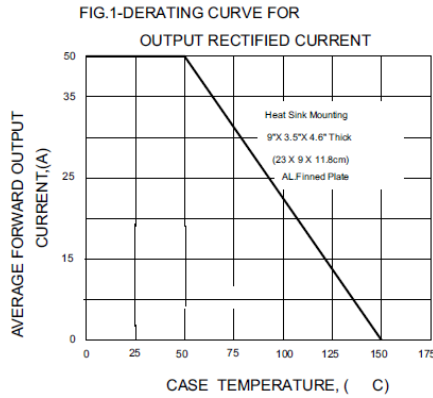
2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

# KBPC50005 THRU KBPC5010

## SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts    CURRENT 50.0 Ampere

### RATING AND CHARACTERISTIC CURVES KBPC50005 THRU KBPC5010



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.