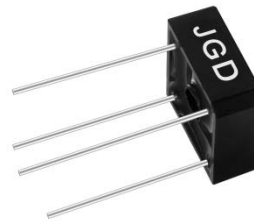


Features

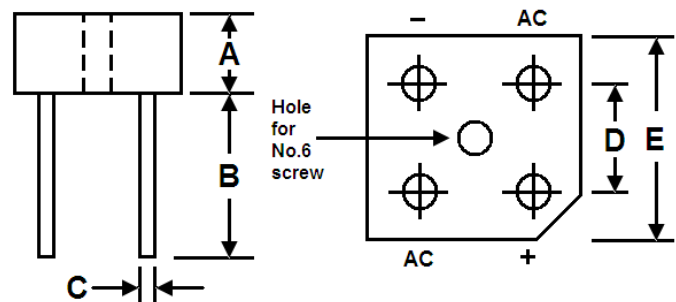
- * Surge overload rating to 200 amperes peak
- * Low forward voltage drop
- * Mounting position: Any
- * Small size, simple installation



RoHS
COMPLIANT

Package Outline Dimensions

KBPC-8/10:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	6.35	7.6	0.250	0.300
B	19.1	-	0.750	-
C	1.27 DIA TYP		0.05 DIA TYP	
D	12.2	13.2	0.48	0.52
E	18.54	19.56	0.730	0.770

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	Symbols	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=50^\circ\text{C}$ (Note1/2)	$I_{F(AV)}$	10							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	175							A
Maximum Forward Voltage Drop per element at 5.0A	V_F	1.10							V
Maximum Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	10 500							μA
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note: 1、 Bolt down on heat sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with #6 screw.
2、 Unit mounted on 6.0 x 6.0 x 0.11" thick (15 x 15 x 0.3cm) Cu. plate.

Ratings and Characteristic Curves

FIG. 1 – MAXIMUM NON – REPETITIVE FORWARD SURE CURRENT – PER ELEMENT

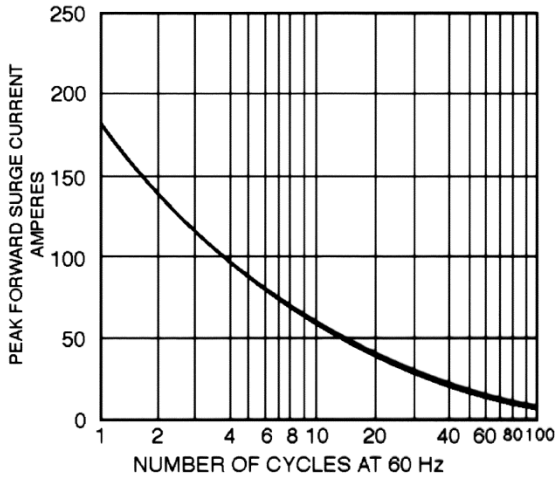


FIG. 2 – TYPICAL FORWARD CURRENT DERATING CURVE

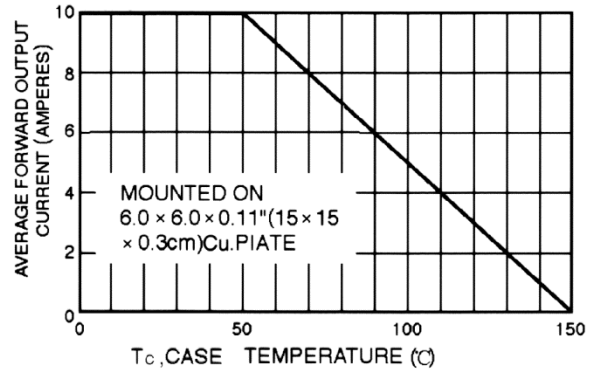


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT

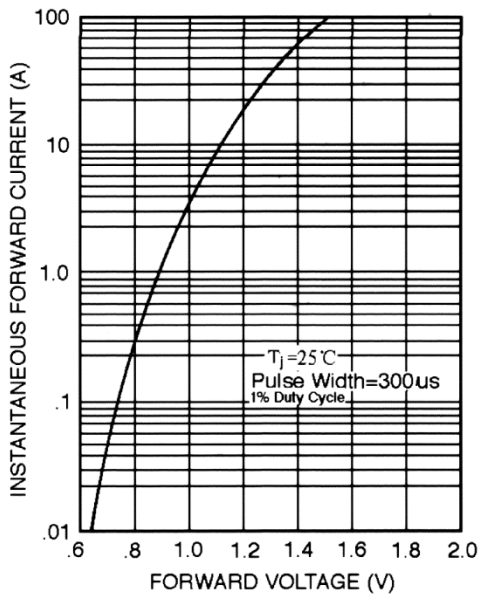
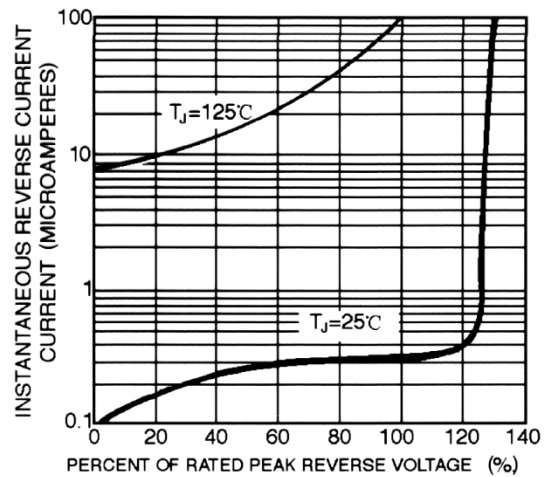


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS PER – ELEMENT





KBPC10005 THRU KBPC1010
Single Phase 10 Amps. Glass Passivated Bridge Rectifiers

Ordering Information

Part No.	Package	Packing
KBPC10005~KBPC1010	KBPC-8/10	0.2K/Tray