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KBPC10005 THRU KBPC1010

Features

- Plastic Case
- Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads
- Surge Overload Rating Of 150 Amps

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

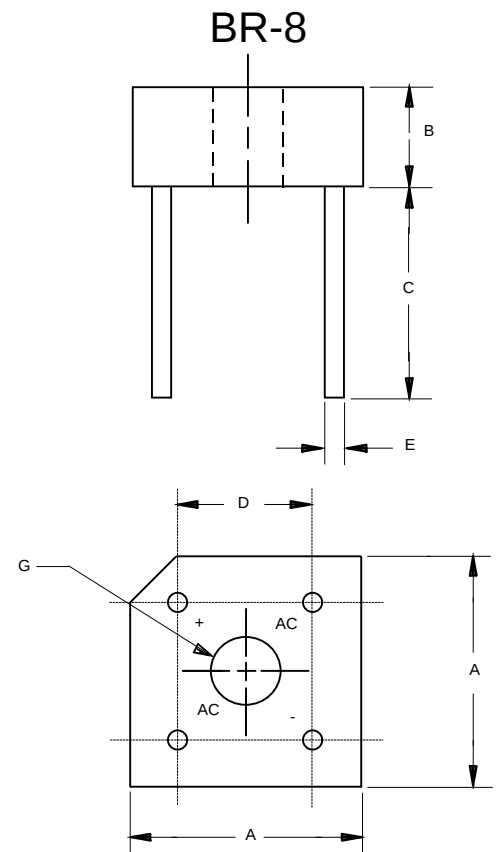
Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBPC10005	BR10005	50V	35V	50V
KBPC1001	BR1001	100V	70V	100V
KBPC1002	BR1002	200V	140V	200V
KBPC1004	BR1004	400V	280V	400V
KBPC1006	BR1006	600V	420V	600V
KBPC1008	BR1008	800V	560V	800V
KBPC1010	BR1010	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10.0A	$T_J = 50^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.10V	$I_{FM} = 3.0\text{A};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 1 mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , Duty cycle 1%

10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

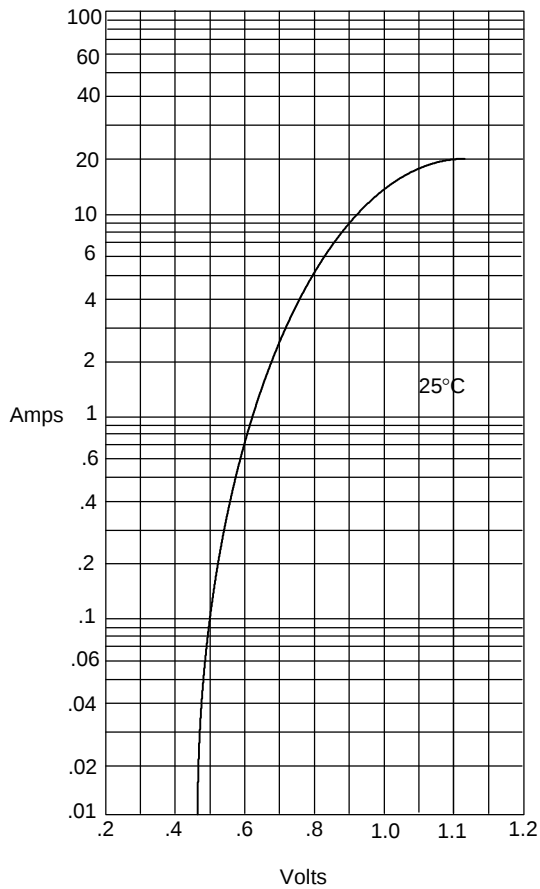


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.730	.770	18.54	19.56	2PL
B	.230	.270	5.84	6.86	
C	.750	---	19.10	---	
D	.480	.520	12.19	13.21	2PL
E	.048	.052	1.20	1.30	4PL/TYP
G	.145	---	3.70	---	Ø



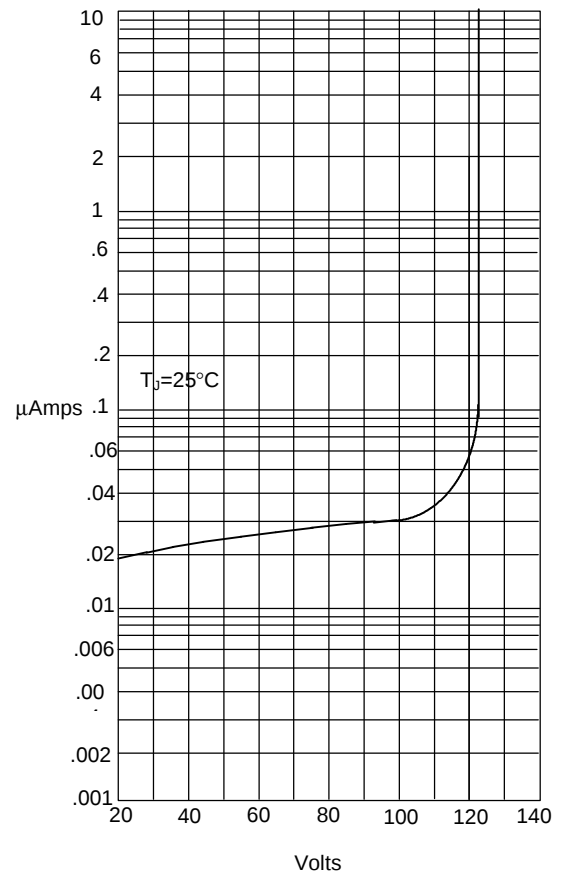
KBPC10005 thru KBPC1010

Figure 1
Typical Forward Characteristics



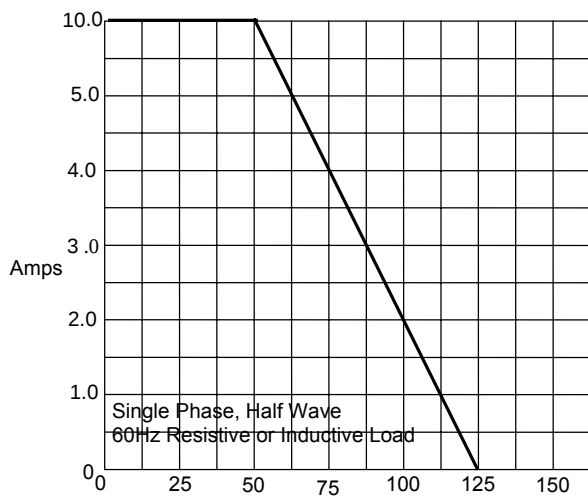
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



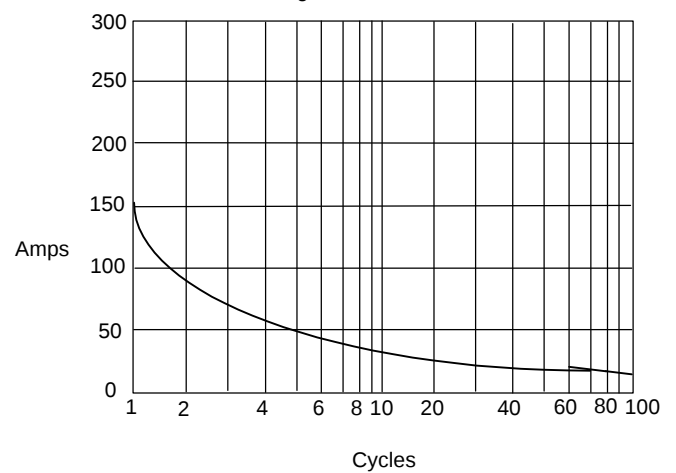
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Case Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60 Hz - Cycles