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KBPC1505W THRU KBPC1510W

15 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

- Mounting Hole For #8 Screw
- High Conductivity Metal Case
- Any Mounting Position
- Surge Rating Of 300 Amps
- Case to Terminal Isolation Voltage 2500V

Maximum Ratings

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

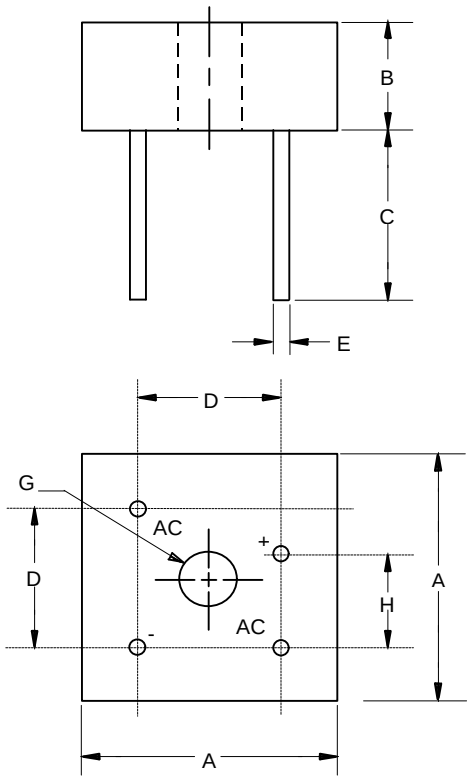
Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBPC15005W		50V	35V	50V
KBPC1501W		100V	70V	100V
KBPC1502W		200V	140V	200V
KBPC1504W		400V	280V	400V
KBPC1506W		600V	420V	600V
KBPC1508W		800V	560V	800V
KBPC1510W		1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15.0A	T_C = 55°C
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.2V	I_{FM} = 7.5A per element; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 1 mA	T_J = 25°C T_J = 125°C

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

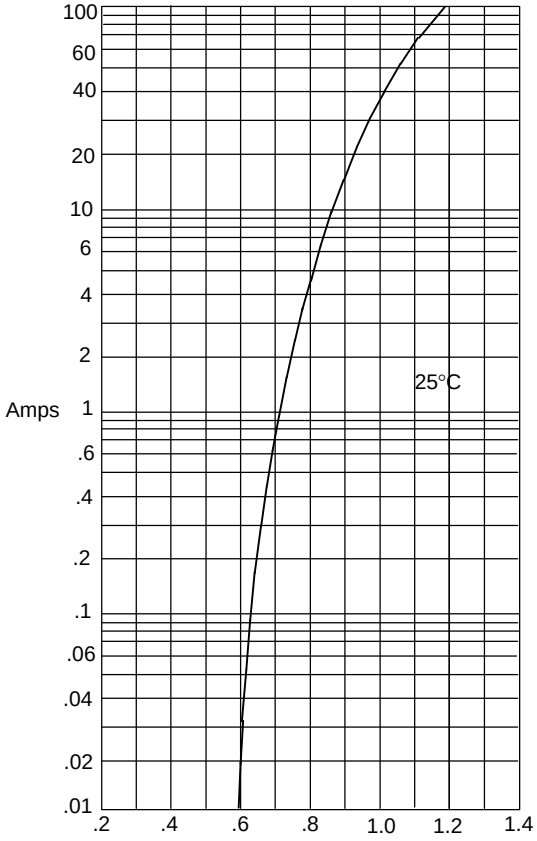
KBPC35W



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.115	1.135	28.33	28.83	
B	.427	.447	10.85	11.35	
C	.774	.-----	19.65	------	
D	.673	.752	17.10	19.10	
E	.038	.042	0.96	1.07	4PL/TYP
G	.193	---	4.90	---	∅
H	.429	.469	10.90	11.90	

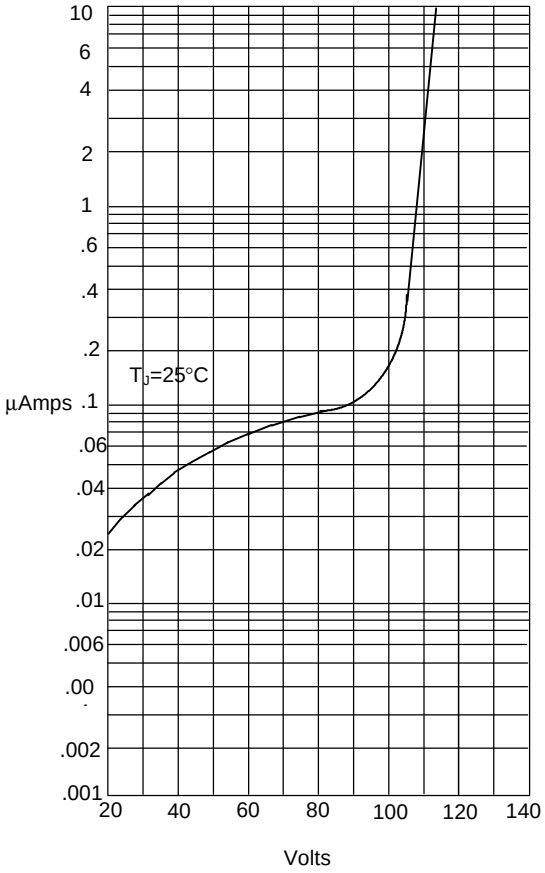
KBPC15005W thru KBPC1510W

Figure 1
Typical Forward Characteristics



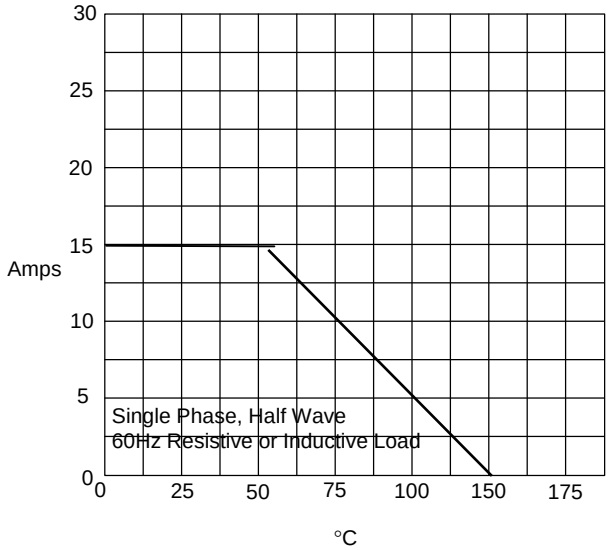
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



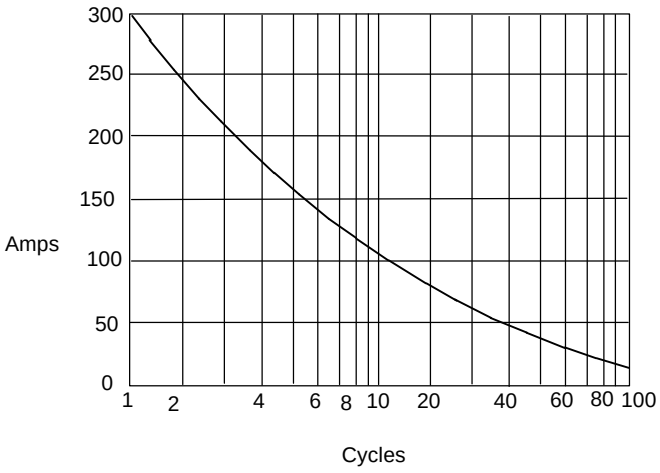
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

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 60Hz - Cycles