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# KBPC35005 THRU KBPC3510

## Features

- Mounting Hole For #10 Screw
- High Conductivity Metal Case
- Any Mounting Position
- Surge Rating Of 400 Amps

## 35 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

## Maximum Ratings

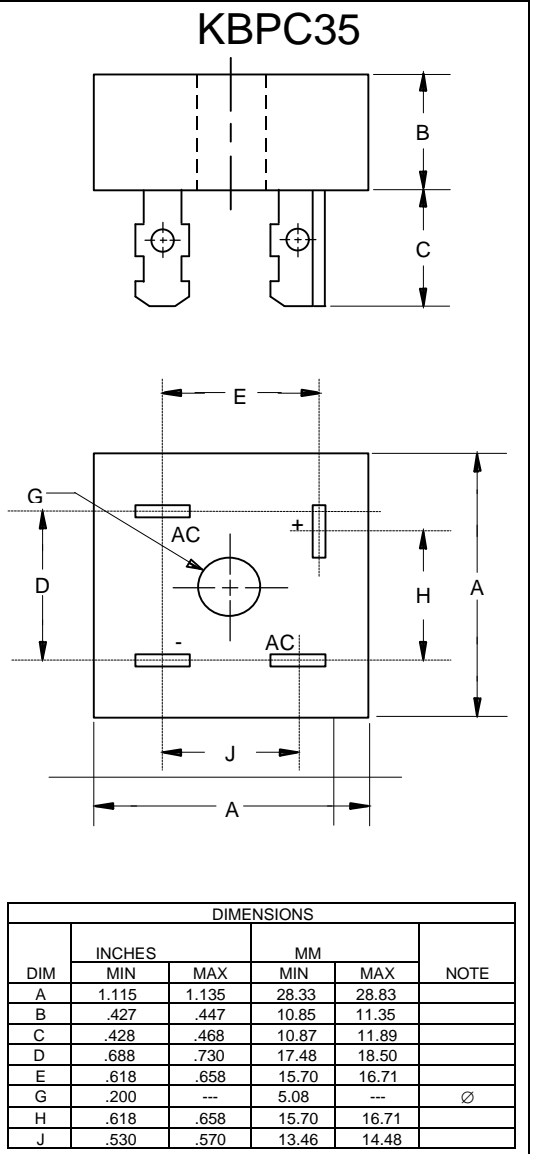
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBPC35005		50V	35V	50V
KBPC3501		100V	70V	100V
KBPC3502		200V	140V	200V
KBPC3504		400V	280V	400V
KBPC3506		600V	420V	600V
KBPC3508		800V	560V	800V
KBPC3510		1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

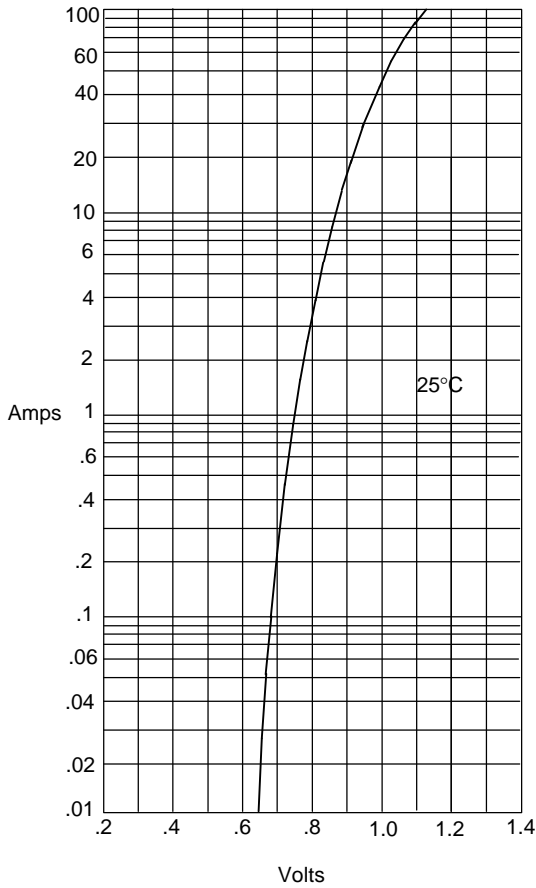
Average Forward Current	$I_{F(AV)}$	35.0A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.2V	$I_{FM} = 17.5\text{A}$ per element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10μA 1mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

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



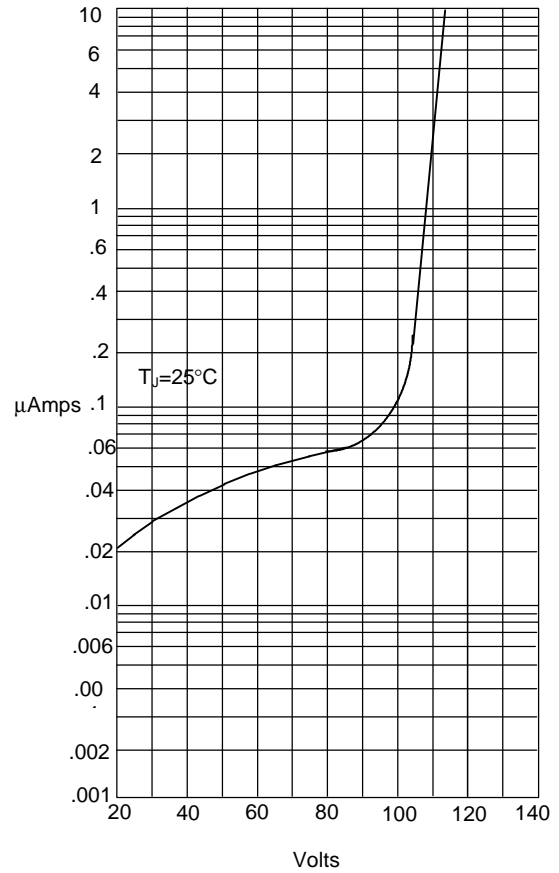
# KBPC35005 thru KBPC3510

Figure 1  
Typical Forward Characteristics



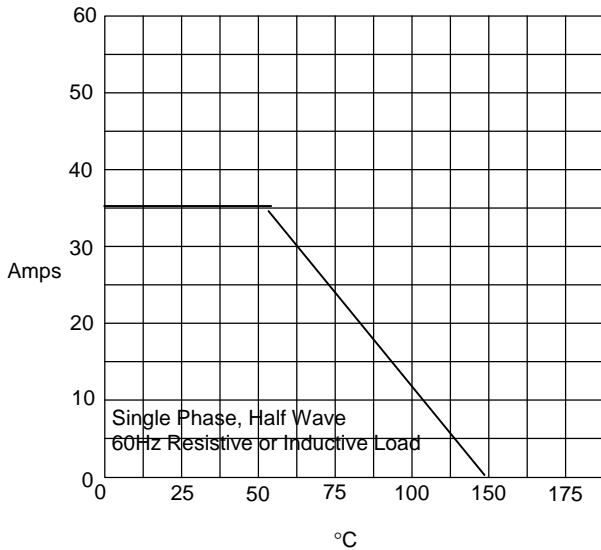
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



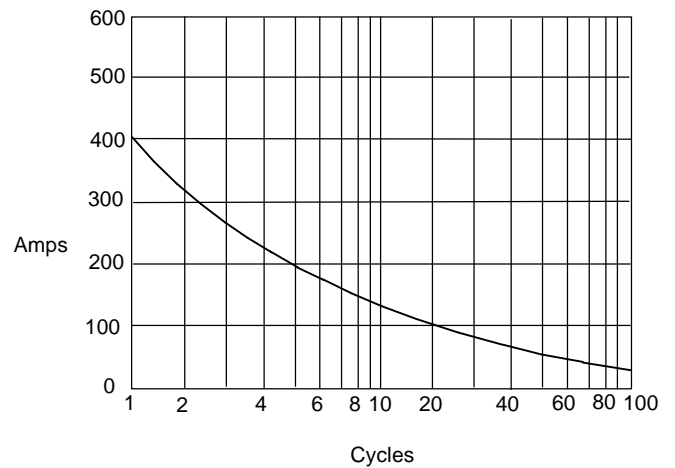
Instantaneous Reverse Leakage Current - MicroAmperes *versus*  
Percent Of Rated Peak Reverse Voltage - Volts

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