

KBP2005 THRU KBP210

Features

- Any Mounting Position
- Rating to 1000V PRV
- Ideal for printed circuit board

**2 Amp
Bridge Rectifier
50 to 1000 Volts**

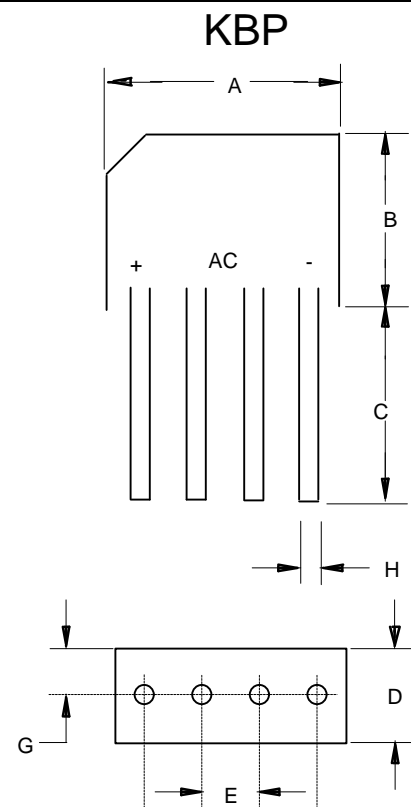
Maximum Ratings

- 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 |
|----------------|----------------|--|---------------------|-----------------------------|
| KBP2005 | KBP2005 | 50V | 35V | 50V |
| KBP201 | KBP201 | 100V | 70V | 100V |
| KBP202 | KBP202 | 200V | 140V | 200V |
| KBP204 | KBP204 | 400V | 280V | 400V |
| KBP206 | KBP206 | 600V | 420V | 600V |
| KBP208 | KBP208 | 800V | 560V | 800V |
| KBP210 | KBP210 | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

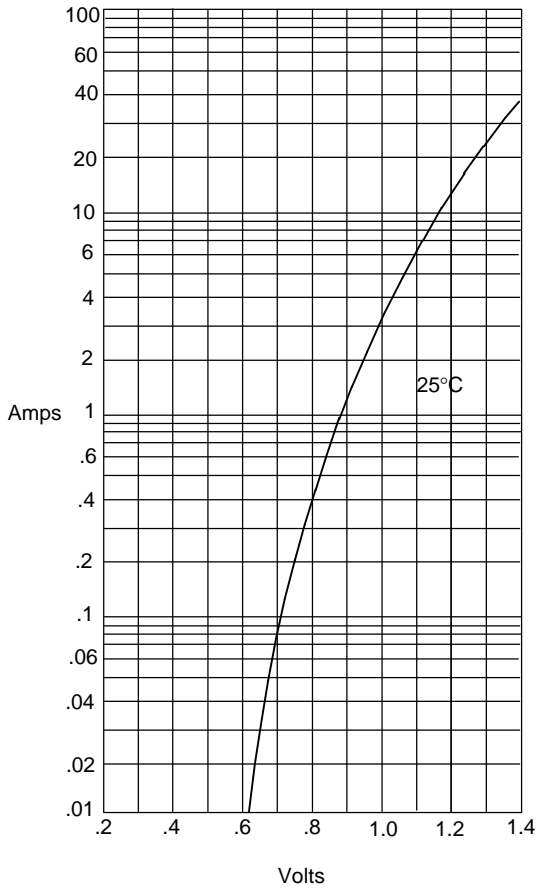
| | | | |
|---|-------------|--------------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_A = 65^\circ\text{C}$ $T_C = 105^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 65A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_{FM} = 2.0\text{A}$ per element; $T_A = 25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 500 μA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| C | .561 | .580 | 14.25 | 14.73 | |
| D | .132 | .144 | 3.35 | 3.65 | |
| G | .031 | .043 | 0.80 | 1.10 | |

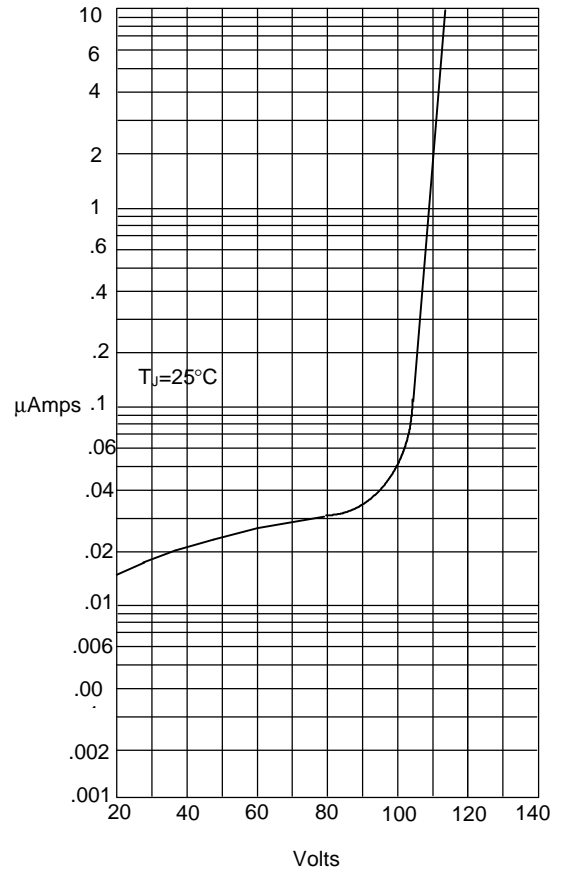
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Figure 1
Typical Forward Characteristics



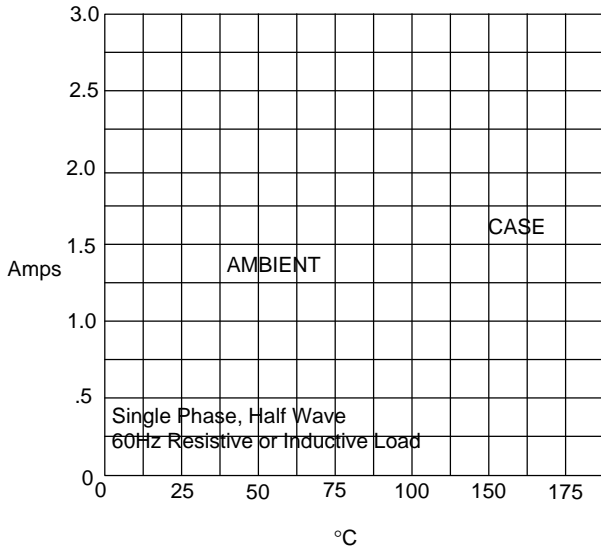
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



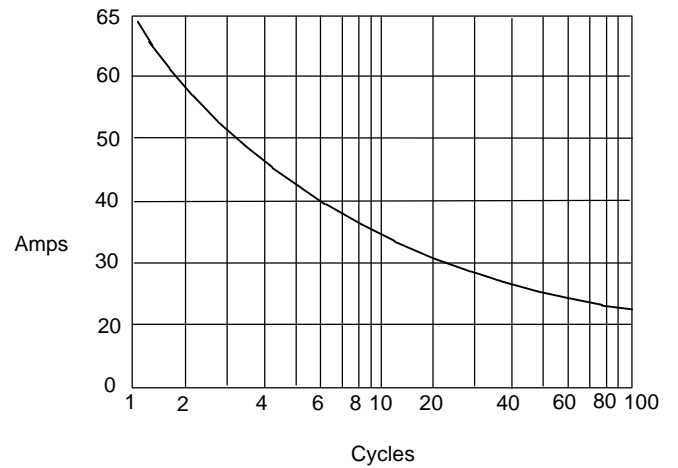
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Maximum Non-Repetitive Forward Surge Current



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