



# 2KBP04M~2KBP10M

## Glass Passivated Bridge Rectifiers

**VOLTAGE**

**400 to 1000 Volt**

**CURRENT**

**2 Ampere**

**KBPF**

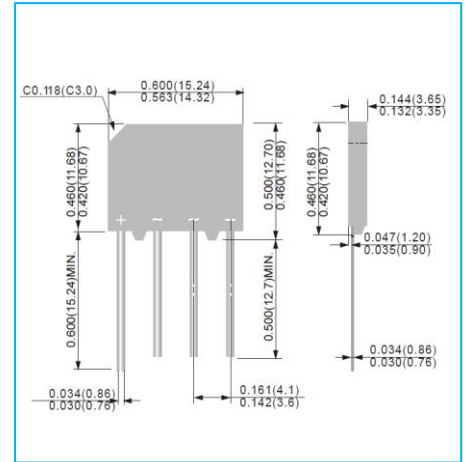
**Unit: Inch(mm)**

### FEATURES

- UL Recognized File #E228882
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Glass passivated chip junction

### MECHANICAL DATA

- Case: KBPF
- Terminals: Leads solderable per MIL-STD-750, Method 2026
- Polarity: As marked on body
- Weight: 1.6g



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

| PARAMETER  | SYMBOL                             | 2KBP 04M     | 2KBP 06M | 2KBP 08M | 2KBP 10M | UNIT             |
|--|------------------------------------|--------------|----------|----------|----------|------------------|
| Maximum repetitive peak reverse voltage                  | $V_{RRM}$                          | 400          | 600      | 800      | 1000     | V                |
| Maximum RMS voltage                                      | $V_{RMS}$                          | 280          | 420      | 560      | 700      | V                |
| Maximum DC blocking voltage                              | $V_{DC}$                           | 400          | 600      | 800      | 1000     | V                |
| Maximum average forward rectified current                | $I_{F(AV)}$                        | 2            |          |          |          | A                |
| Peak forward surge current, 8.3 ms single half sine-wave | $I_{FSM}$                          | 60           |          |          |          | A                |
| Rating of fusing ( $t < 8.3ms$ ) (Note1)                 | $I^2t$                             | 15           |          |          |          | A <sup>2</sup> s |
| Maximum instantaneous forward voltage per diode          | $V_F$                              | 1<br>1.1     |          |          |          | V                |
| Maximum reverse current @ rated $V_R$                    | $I_R$                              | 5<br>500     |          |          |          | $\mu A$          |
| Typical junction capacitance (Note 2)                    | $C_J$                              | 23           |          |          |          | pF               |
| Typical thermal resistance (Note 3)                      | $R_{\theta JA}$<br>$R_{\theta JC}$ | 20<br>5      |          |          |          | °C/W             |
| Operating junction temperature range                     | $T_J$                              | - 55 to +150 |          |          |          | °C               |
| Storage temperature range                                | $T_{STG}$                          | - 55 to +150 |          |          |          | °C               |

Note 1: Non-repetitive, for  $t > 1ms$  and  $< 8.3ms$ .

Note 2: Measured at 1MHz and applied Reverse bias of 4V DC

Note 3: Thermal resistance from junction to ambient and from junction to case mounted on PCB



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## TYPICAL CHARACTERISTIC CURVES

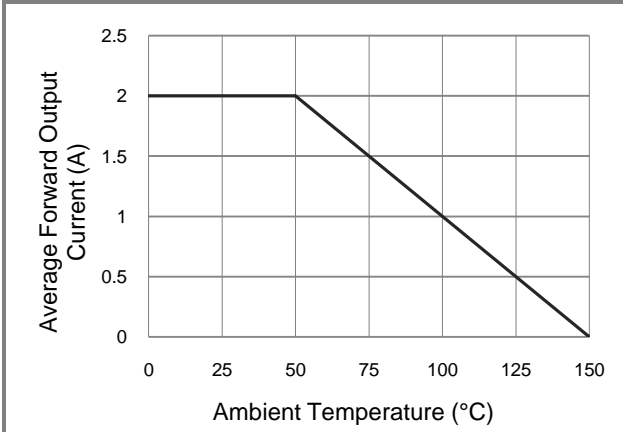


Fig.1 Forward Current Derating Curve

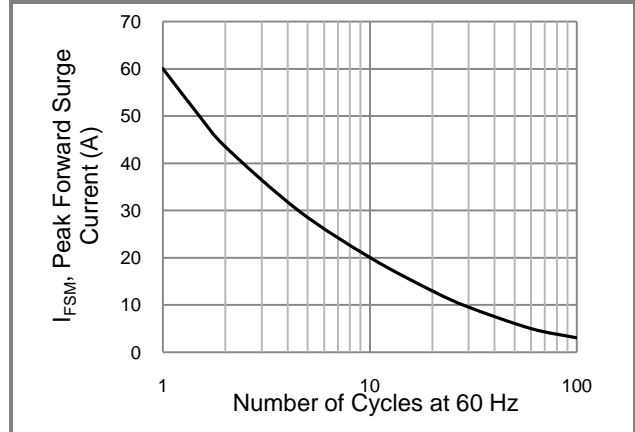


Fig.2 Maximum Forward Surge Current

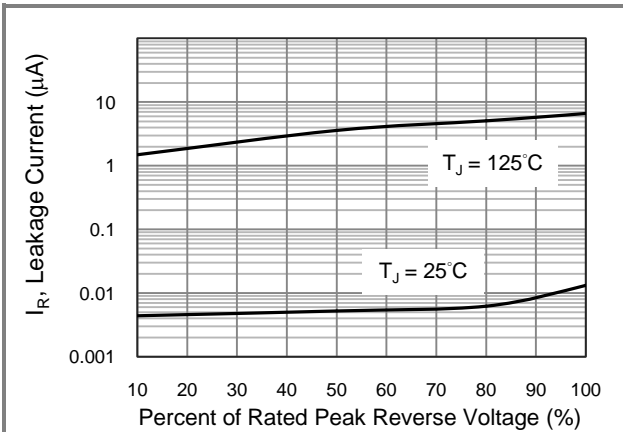


Fig.3 Typical Reverse Characteristics

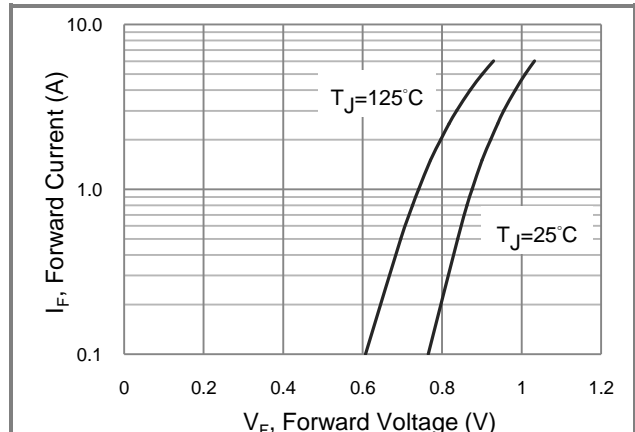


Fig.4 Typical Forward Characteristics

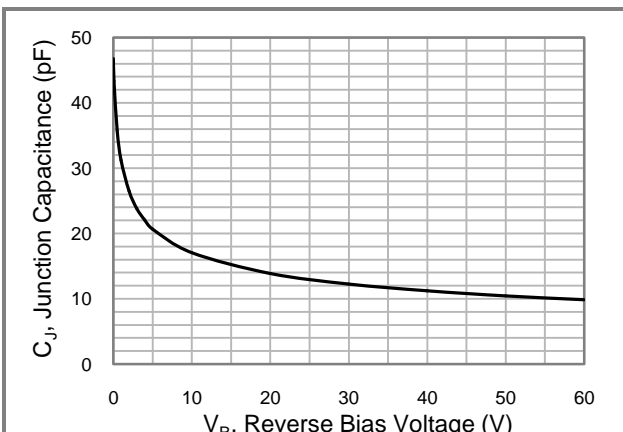


Fig.5 Typical Junction Capacitance



## 2KBP04M~2KBP10M

### Part No\_packing code\_Version

2KBP04M\_BO\_00001  
2KBP04M\_BO\_10001

For example :

**2KBP04M\_**B0\_00001



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |  |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|--|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>st</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>st</sup> ~ 5 <sup>st</sup> Code |
| Tape and Ammunition Box (T/B)        | <b>A</b>             | N/A                              | <b>0</b>             | <b>HF</b>                 | <b>0</b>             | serial number                          |
| Tape and Reel (T/R)                  | <b>R</b>             | 7"                               | <b>1</b>             | <b>RoHS</b>               | <b>1</b>             | serial number                          |
| Bulk Packing (B/P)                   | <b>B</b>             | 13"                              | <b>2</b>             |                           |                      |  |
| Tube Packing (T/P)                   | <b>T</b>             | 26mm                             | <b>X</b>             |                           |                      |  |
| Tape and Reel (Right Oriented) (TRR) | <b>S</b>             | 52mm                             | <b>Y</b>             |                           |                      |  |
| Tape and Reel (Left Oriented) (TRL)  | <b>L</b>             | PANASERT T/B CATHODE UP (PBCU)   | <b>U</b>             |                           |                      |  |
| FORMING                              | <b>F</b>             | PANASERT T/B CATHODE DOWN (PBCD) | <b>D</b>             |                           |                      |  |



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