
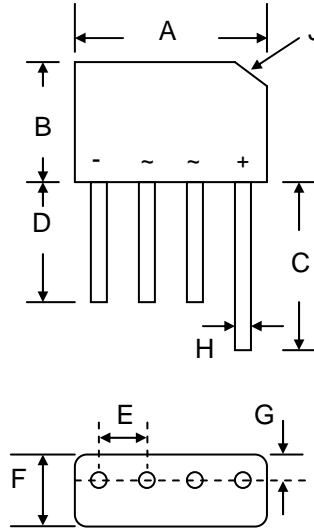


### Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
-  Recognized File # E157705



| KBPM                 |                   |       |
|----------------------|-------------------|-------|
| Dim                  | Min               | Max   |
| A                    | 14.22             | 15.24 |
| B                    | 10.60             | 11.68 |
| C                    | 15.20             | —     |
| D                    | 12.70             | —     |
| E                    | 3.60              | 4.10  |
| F                    | 3.70              | 3.90  |
| G                    | 1.27 Typical      |       |
| H                    | 0.70              | 0.90  |
| J                    | 3.2 x 45° Typical |       |
| All Dimensions in mm |                   |       |

### Mechanical Data

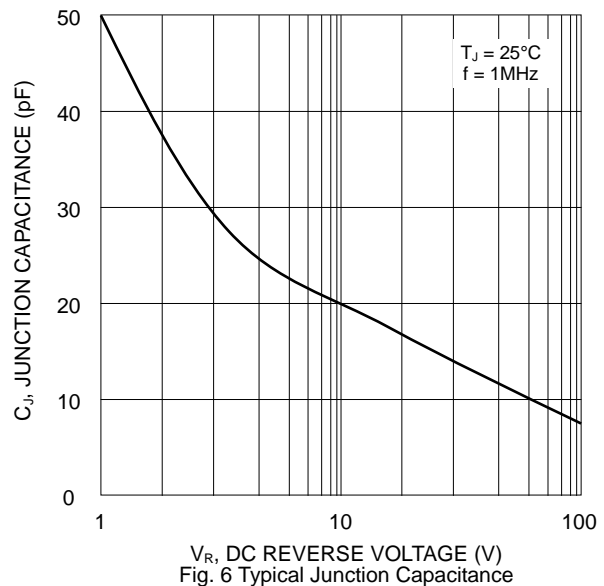
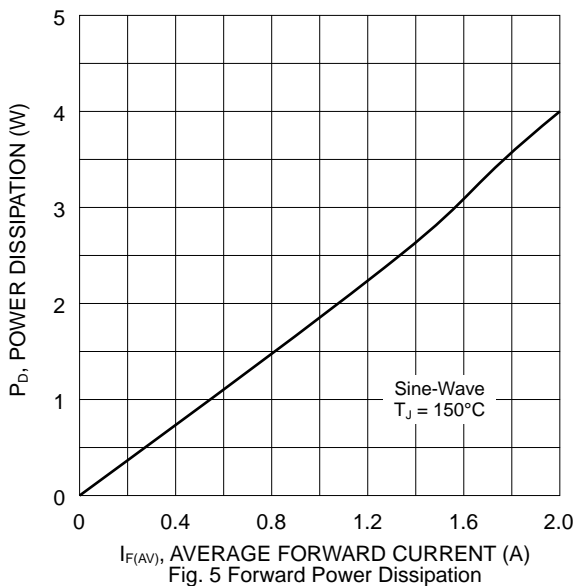
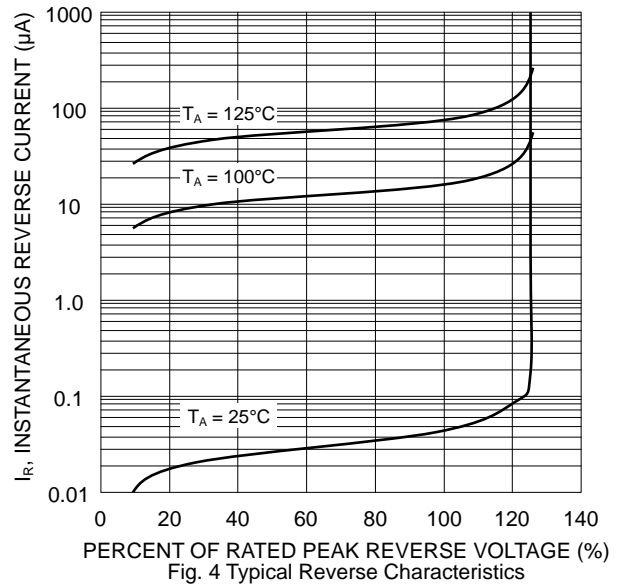
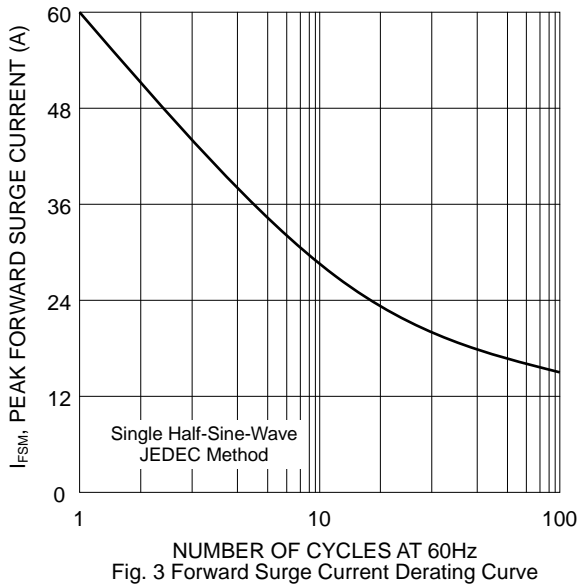
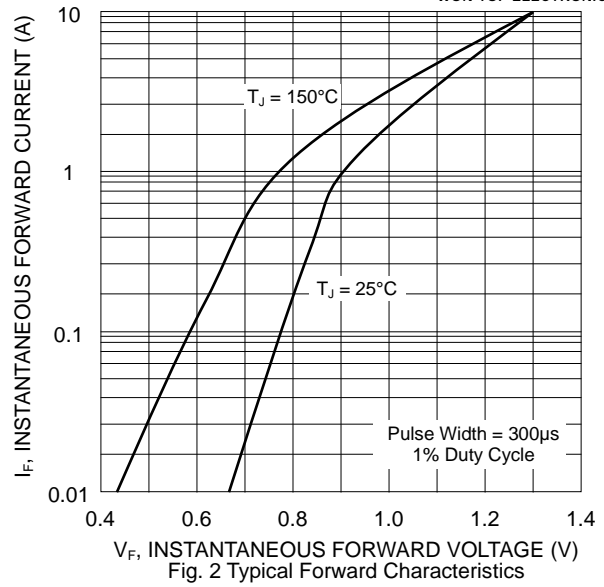
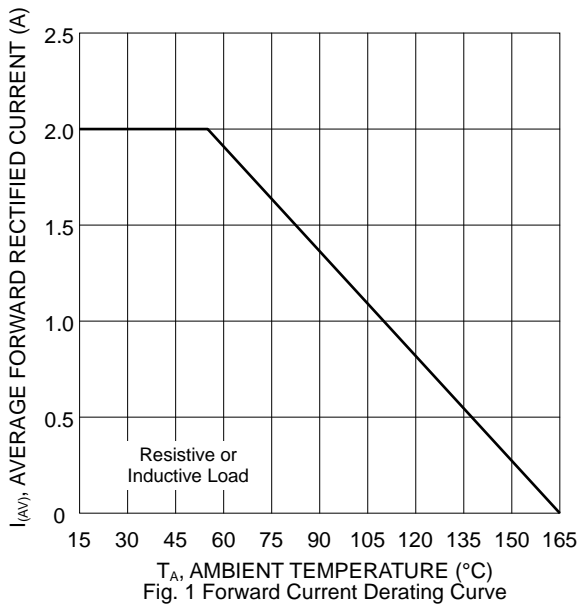
- Case: KBPM, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**

### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

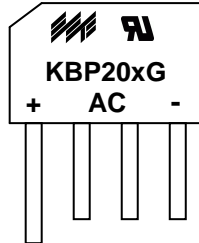
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic  | Symbol         | KBP 200G    | KBP 201G | KBP 202G | KBP 204G | KBP 206G | KBP 208G | KBP 2010G | Unit                      |
|---|----------------|-------------|----------|----------|----------|----------|----------|-----------|---------------------------|
| Peak Repetitive Reverse Voltage   | $V_{RRM}$      |             |          |          |          |          |          |           | V                         |
| Working Peak Reverse Voltage  | $V_{RWM}$      | 50          | 100      | 200      | 400      | 600      | 800      | 1000      |                           |
| DC Blocking Voltage   | $V_R$          |             |          |          |          |          |          |           |                           |
| RMS Reverse Voltage   | $V_{R(RMS)}$   | 35          | 70       | 140      | 280      | 420      | 560      | 700       | V                         |
| Average Rectified Output Current @ $T_A = 55^\circ\text{C}$   | $I_O$          | 2.0         |          |          |          |          |          |           | A                         |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave Superimposed on<br>Rated Load (JEDEC Method) | $I_{FSM}$      | 60          |          |          |          |          |          |           | A                         |
| Forward Voltage per leg @ $I_F = 2.0\text{A}$   | $V_{FM}$       | 1.1         |          |          |          |          |          |           | V                         |
| Peak Reverse Current @ $T_A = 25^\circ\text{C}$<br>At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$           | $I_{RM}$       | 5.0<br>500  |          |          |          |          |          |           | $\mu\text{A}$             |
| $I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )   | $I^2t$         | 15          |          |          |          |          |          |           | $\text{A}^2\text{s}$      |
| Typical Junction Capacitance (Note 1)   | $C_J$          | 25          |          |          |          |          |          |           | pF                        |
| Thermal Resistance Junction to Ambient (Note 2)   | $R_{JA}$       | 30          |          |          |          |          |          |           | $^\circ\text{C}/\text{W}$ |
| Thermal Resistance Junction to Lead (Note 2)  | $R_{JL}$       | 11          |          |          |          |          |          |           |                           |
| Operating and Storage Temperature Range   | $T_J, T_{STG}$ | -55 to +165 |          |          |          |          |          |           | $^\circ\text{C}$          |

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.  
2. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.



## MARKING INFORMATION



KBP20xG = Device Number  
 x = 0, 1, 2, 4, 6, 8 or 10  
 Polarity = As Marked on Body

## PACKAGING INFORMATION

### BULK


| Tube Size<br>L x W x H (mm) | Quantity<br>(PCS) | Inner Box Size<br>L x W x H (mm) | Quantity<br>(PCS) | Carton Size<br>L x W x H (mm) | Quantity<br>(PCS) | Approx. Gross Weight<br>(KG) |
|-----------------------------|-------------------|----------------------------------|-------------------|-------------------------------|-------------------|------------------------------|
| 393 x 35 x 6                | 25                | 400 x 140 x 76                   | 1,000             | 415 x 300 x 185               | 4,000             | 12.0                         |

**Note:** 1. Anti-static tube, water clear color.

## ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| KBP200G     | SIL Bridge   | 25 Units/Tube     |
| KBP201G     | SIL Bridge   | 25 Units/Tube     |
| KBP202G     | SIL Bridge   | 25 Units/Tube     |
| KBP204G     | SIL Bridge   | 25 Units/Tube     |
| KBP206G     | SIL Bridge   | 25 Units/Tube     |
| KBP208G     | SIL Bridge   | 25 Units/Tube     |
| KBP2010G    | SIL Bridge   | 25 Units/Tube     |

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBP200G-LF.**

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