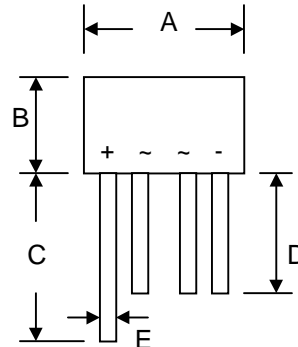
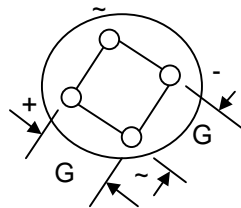


### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E157705



| RB-20                |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 9.10 | 9.40 |
| B                    | 6.90 | 7.40 |
| C                    | 27.9 | —    |
| D                    | 25.4 | —    |
| E                    | 0.71 | 0.81 |
| G                    | 4.60 | 5.60 |
| All Dimensions in mm |      |      |



### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.3 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

### 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       | RB200       | RB201 | RB202 | RB204 | RB206 | RB208 | RB2010 | Unit             |
|--|--------------|-------------|-------|-------|-------|-------|-------|--------|------------------|
| Peak Repetitive Reverse Voltage  | $V_{RRM}$    |             |       |       |       |       |       |        |                  |
| Working Peak Reverse Voltage   | $V_{RWM}$    | 50          | 100   | 200   | 400   | 600   | 800   | 1000   | V                |
| DC Blocking Voltage  | $V_R$        |             |       |       |       |       |       |        |                  |
| RMS Reverse Voltage  | $V_{R(RMS)}$ | 35          | 70    | 140   | 280   | 420   | 560   | 700    | V                |
| Average Rectified Output Current (Note 1)<br>@ $T_A = 50^\circ\text{C}$  | $I_O$        | 2.0         |       |       |       |       |       |        | A                |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$    | 50          |       |       |       |       |       |        | A                |
| Forward Voltage (per element)<br>@ $I_F = 2.0\text{A}$   | $V_{FM}$     | 1.0         |       |       |       |       |       |        | V                |
| Peak Reverse Current<br>At Rated DC Blocking Voltage<br>@ $T_A = 25^\circ\text{C}$<br>@ $T_A = 100^\circ\text{C}$  | $I_{RM}$     | 10<br>500   |       |       |       |       |       |        | $\mu\text{A}$    |
| Operating Temperature Range  | $T_j$        | -55 to +125 |       |       |       |       |       |        | $^\circ\text{C}$ |
| Storage Temperature Range  | $T_{STG}$    | -55 to +150 |       |       |       |       |       |        | $^\circ\text{C}$ |

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

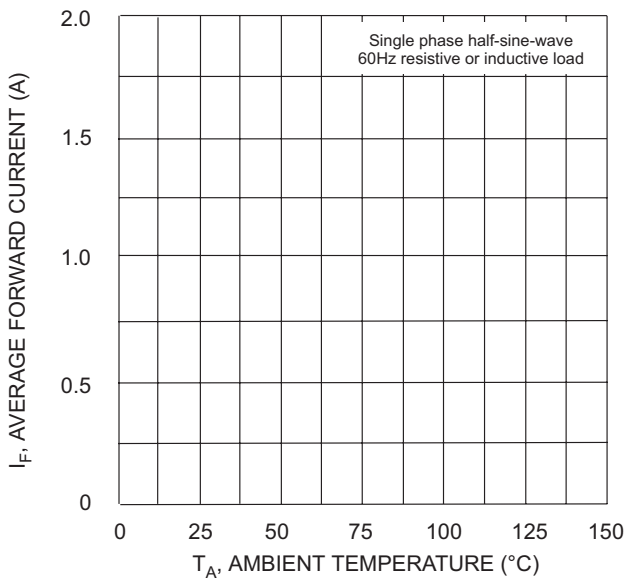


Fig. 1 Forward Current Derating Curve

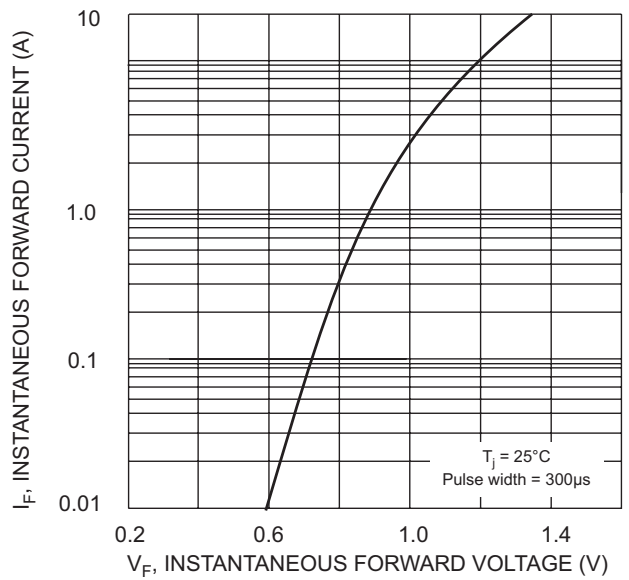


Fig. 2 Typical Forward Characteristics, per element

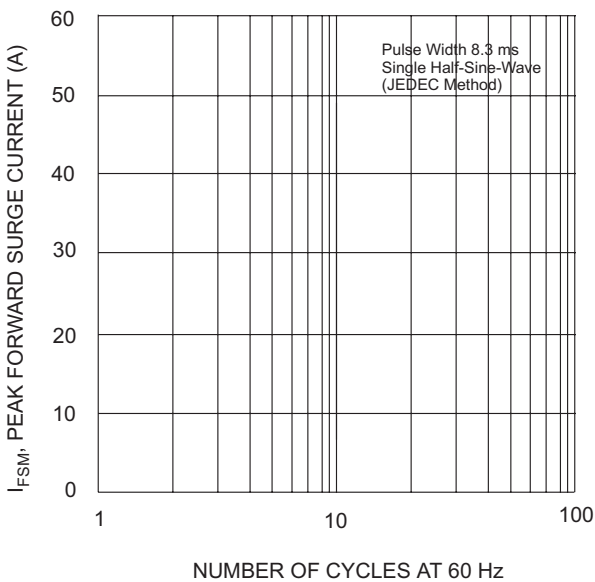


Fig. 3 Max Non-Repetitive Surge Current

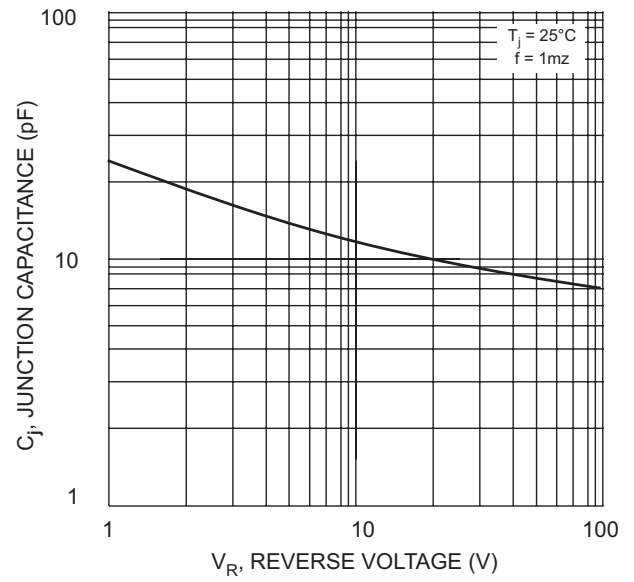


Fig. 4 Typical Junction Capacitance

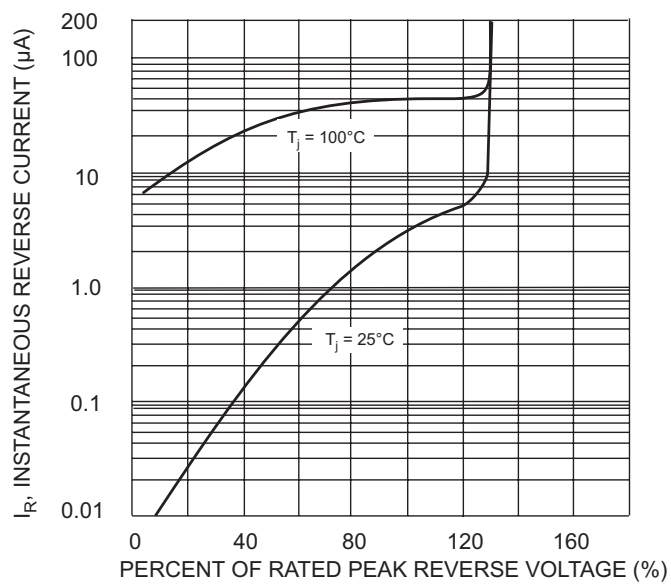


Fig. 5 Typical Reverse Characteristics

## ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| RB200       | Round Bridge | 1000 Units/Box    |
| RB201       | Round Bridge | 1000 Units/Box    |
| RB202       | Round Bridge | 1000 Units/Box    |
| RB204       | Round Bridge | 1000 Units/Box    |
| RB206       | Round Bridge | 1000 Units/Box    |
| RB208       | Round Bridge | 1000 Units/Box    |
| RB2010      | Round Bridge | 1000 Units/Box    |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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