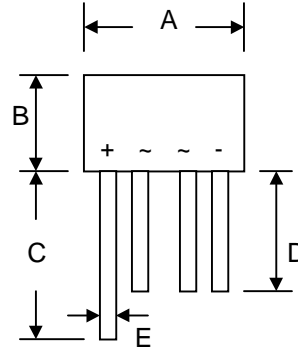
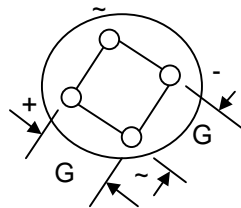


Features

- 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 | 8.60 | 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 | 2W005 | 2W01 | 2W02 | 2W04 | 2W06 | 2W08 | 2W10 | 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 (Note 1) @ $T_A = 50^\circ\text{C}$ | I_O | 2.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 50 | | | | | | | A |
| Forward Voltage (per element) @ $I_F = 2.0\text{A}$ | V_{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current At Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$ | I_{RM} | 10 500 | | | | | | | μA |
| 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.

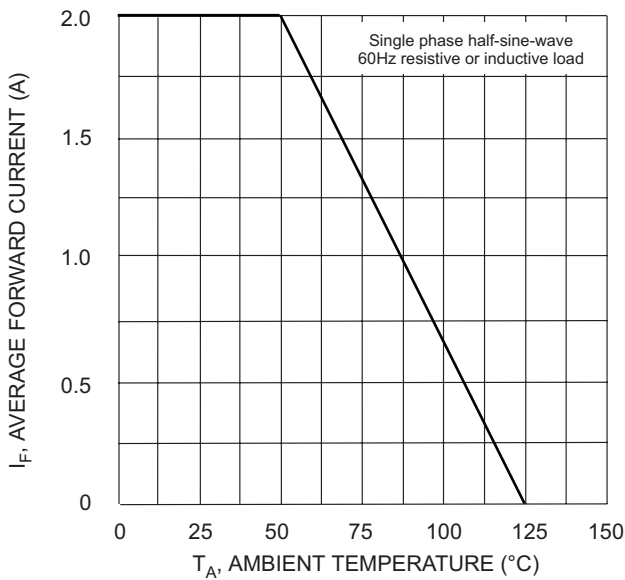


Fig. 1 Forward Current Derating Curve

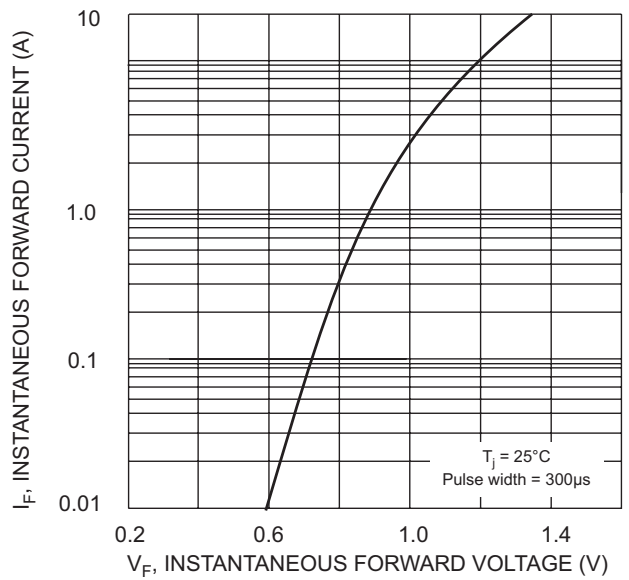


Fig. 2 Typical Forward Characteristics, per element

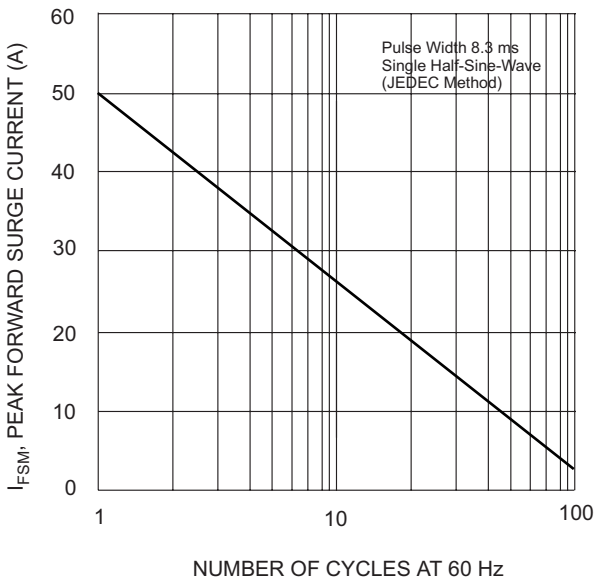


Fig. 3 Max Non-Repetitive Surge Current

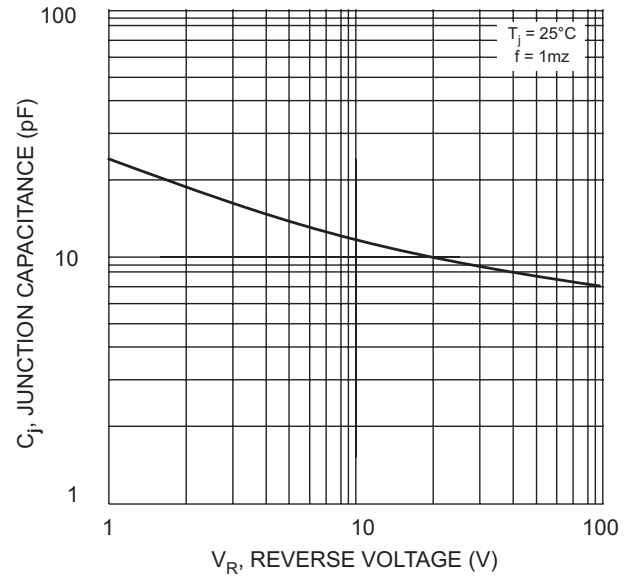


Fig. 4 Typical Junction Capacitance

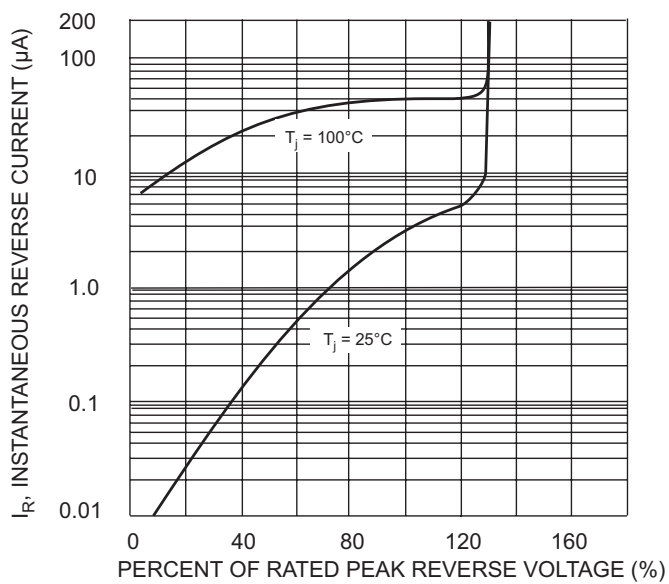


Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| 2W005 | Round Bridge | 1000 Units/Box |
| 2W01 | Round Bridge | 1000 Units/Box |
| 2W02 | Round Bridge | 1000 Units/Box |
| 2W04 | Round Bridge | 1000 Units/Box |
| 2W06 | Round Bridge | 1000 Units/Box |
| 2W08 | Round Bridge | 1000 Units/Box |
| 2W10 | 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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