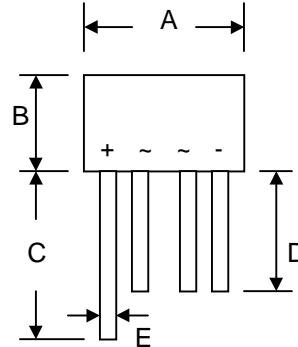
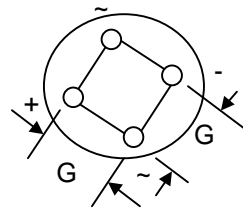


### Features

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



| Dim                  | WOB  |      |
|----------------------|------|------|
|                      | Min  | Max  |
| A                    | 8.60 | 9.10 |
| B                    | 5.0  | 5.50 |
| 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: 1.1 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                          | W005M       | W01M | W02M | W04M | W06M | W08M | W10M | Unit             |
|---|---------------------------------|-------------|------|------|------|------|------|------|------------------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | $V_{RRM}$<br>$V_{RWM}$<br>$V_R$ | 50          | 100  | 200  | 400  | 600  | 800  | 1000 | V                |
| RMS Reverse Voltage   | $V_{R(RMS)}$                    | 35          | 70   | 140  | 280  | 420  | 560  | 700  | V                |
| Average Rectified Output Current<br>(Note 1) @ $T_A = 50^\circ\text{C}$   | $I_O$                           | 1.5         |      |      |      |      |      |      | A                |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on<br>rated load (JEDEC Method) | $I_{FSM}$                       | 40          |      |      |      |      |      |      | A                |
| Forward Voltage (per element) @ $I_F = 1.5\text{A}$   | $V_{FM}$                        | 1.0         |      |      |      |      |      |      | V                |
| Peak Reverse Current<br>At Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$<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.

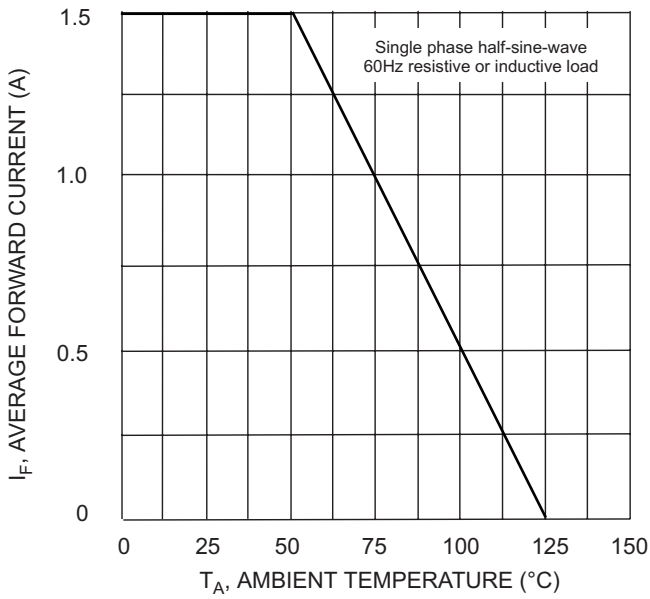


Fig. 1 Forward Current Derating Curve

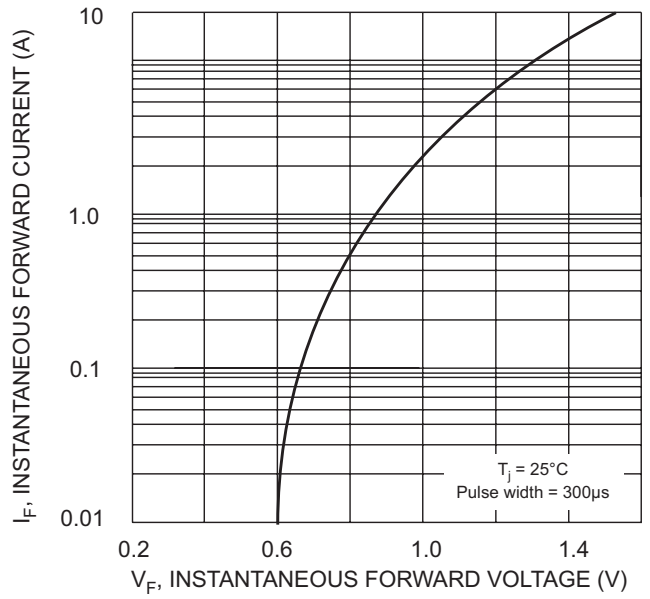


Fig. 2 Typical Forward Characteristics, per element

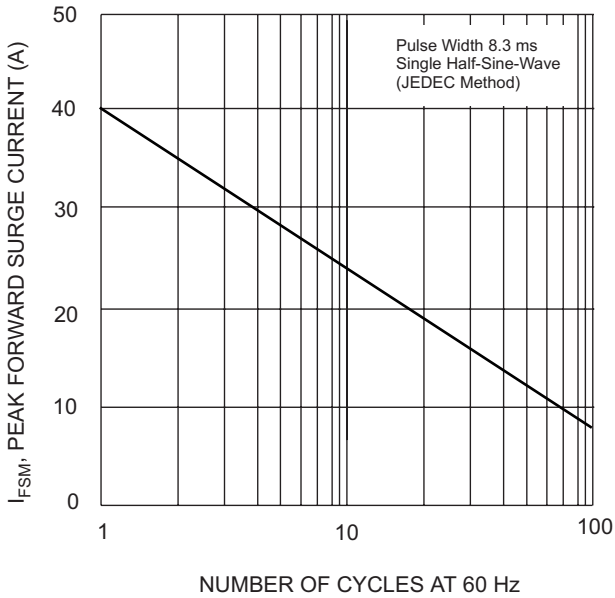


Fig. 3 Max Non-Repetitive Surge Current

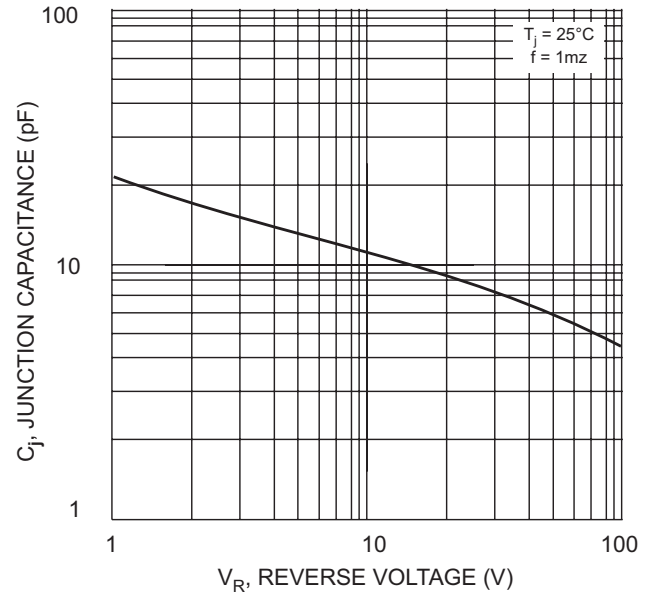


Fig. 4 Typical Junction Capacitance