

2W005 THRU 2W10

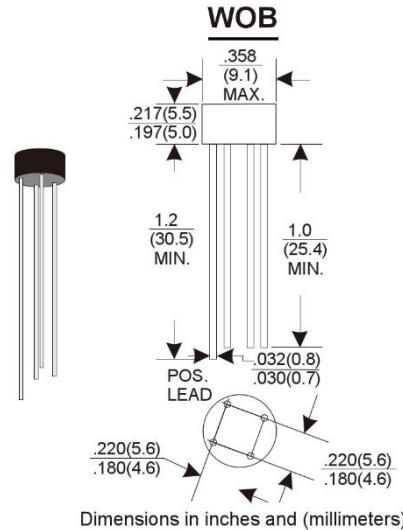
Voltage Range 50 to 1000 V
Current 2.0 Ampere

FEATURES

- Glass passivated chip
- High surge forward current capability
- Reliable low cost construction utilizing molded plastic technique
- Lead tin plated copper
- Meet UL flammability classification 94V-0

MECHANICAL DATA

- Polarity: Symbol marked on body
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Parameter | Symbol | 2W 005 | 2W 01 | 2W 02 | 2W 04 | 2W 06 | 2W 08 | 2W 10 | Unit |
|---|----------------|-----------|----------|----------|----------|-------------|----------|----------|------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified output current @ $T_A=25^\circ C$ | $I_{F(AV)}$ | | | | | 2.0 | | | A |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | I_{FSM} | | | | | 60 | | | A |
| Rating for fusing ($t < 8.3$ ms) | I^2t | | | | | 15 | | | A^2s |
| Maximum instantaneous forward drop per diode @ $I_F=2.0A$ | V_F | | | | | 1.1 | | | V |
| Maximum DC reverse current at rated DC blocking voltage per diode @ $T_J=100^\circ C$ | I_R | | | | | 10 | | | μA |
| Operating junction and storage temperature range | T_J, T_{STG} | | | | | -55 to +150 | | | $^\circ C$ |

RATINGS AND CHARACTERISTICS CURVES

Fig.1 - Forward Current Derating Curve

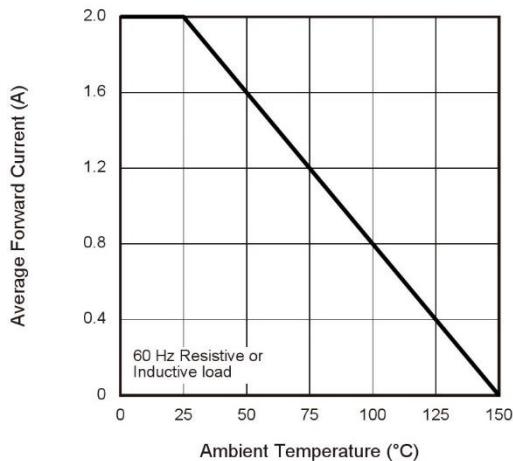


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

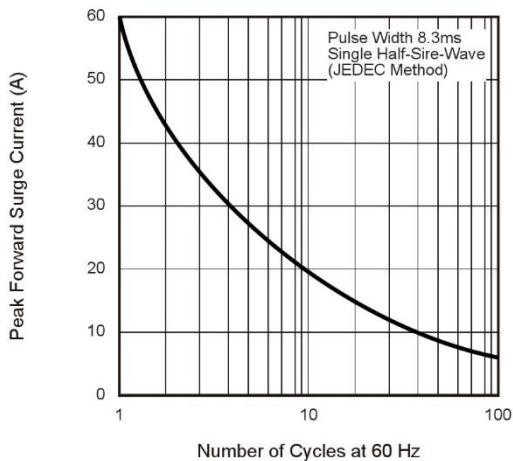


Fig.3 - Typical Instantaneous Forward Characteristics

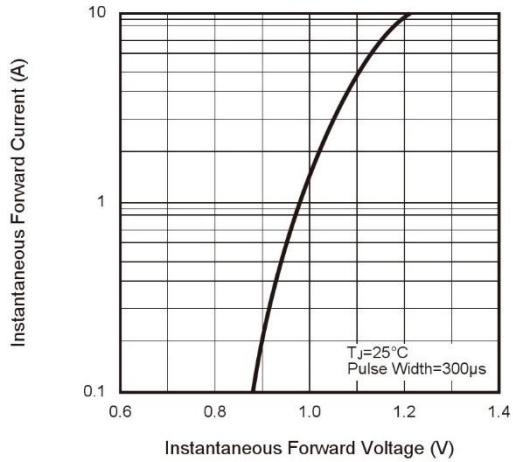
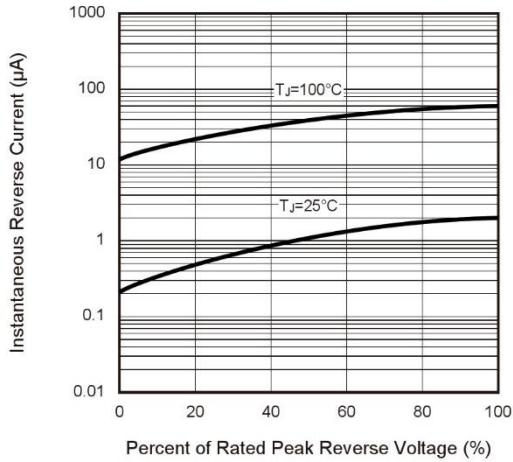


Fig.4 - Typical Reverse Leakage Characteristics



ORDER INFORMATION

| Part Number | Marking Code | Package | Quantity | Delivery Mode |
|-------------|--------------|---------|----------|---------------|
| 2Wxx | 2WxxG | WOB | 1,000 | Box |

Note : "xx" defines voltage from 50V(2W005) to 1000V(2W10)