



# 2W005 THRU 2W10

## SINGLE PHASE 2.0 AMP BRIDGE RECTIFIERS



### FEATURES

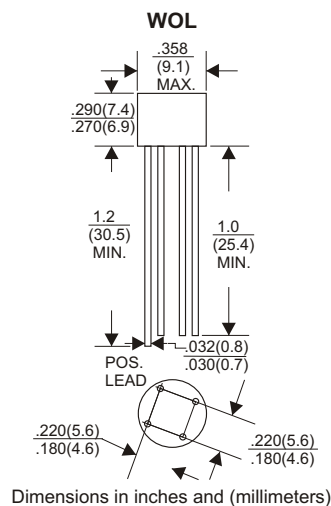
- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Weight: 1.37 grams

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

2.0 Amperes



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                        | 2W005      | 2W010 | 2W02 | 2W04 | 2W06 | 2W08 | 2W10 | UNITS |
|----------------------------------------------------------------------------------------------------|------------|-------|------|------|------|------|------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 50         | 100   | 200  | 400  | 600  | 800  | 1000 | V     |
| Maximum RMS Voltage                                                                                | 35         | 70    | 140  | 280  | 420  | 560  | 700  | V     |
| Maximum DC Blocking Voltage                                                                        | 50         | 100   | 200  | 400  | 600  | 800  | 1000 | V     |
| Maximum Average Forward Rectified Current                                                          | 2.0        |       |      |      |      |      |      | A     |
| .375" (9.5mm) Lead Length at Ta=25°C                                                               | 2.0        |       |      |      |      |      |      | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 50         |       |      |      |      |      |      | A     |
| Maximum Forward Voltage Drop per Bridge Element at 2.0A D.C.                                       | 1.1        |       |      |      |      |      |      | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 5          |       |      |      |      |      |      | uA    |
| at Rated DC Blocking Voltage Ta=100°C                                                              | 500        |       |      |      |      |      |      | uA    |
| Operating Temperature Range, Tj                                                                    | -65 — +150 |       |      |      |      |      |      | °C    |
| Storage Temperature Range, TSTG                                                                    | -65 — +150 |       |      |      |      |      |      | °C    |

RATING AND CHARACTERISTIC CURVES (2W005 THRU 2W10)

FIG.1-TYPICAL FORWARD CURRENT  
DERATING CURVE

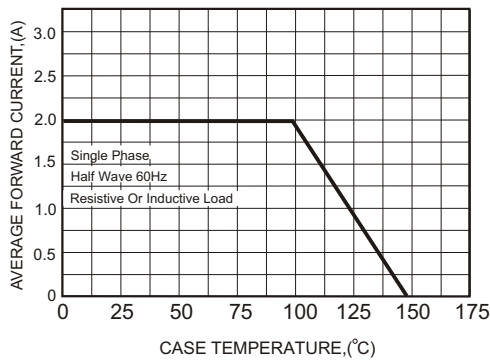


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

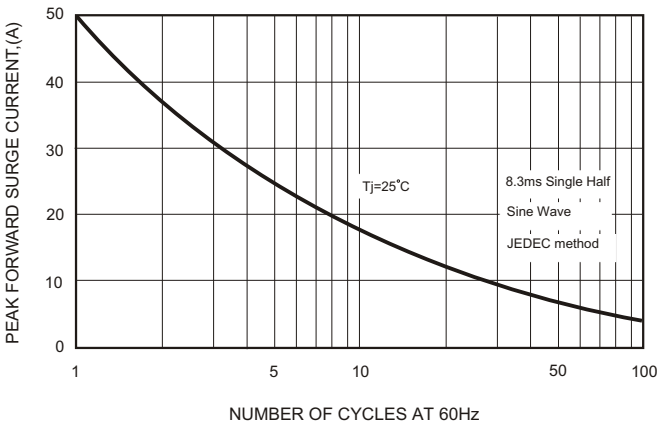


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

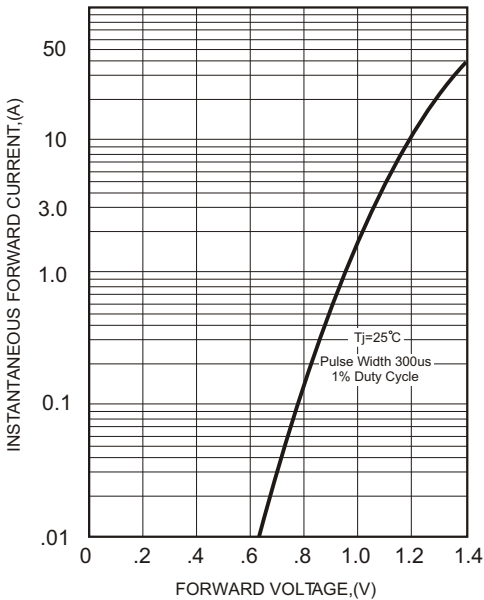


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

