



CHENYI ELECTRONICS

# W005G THRU W10G

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:1.5A

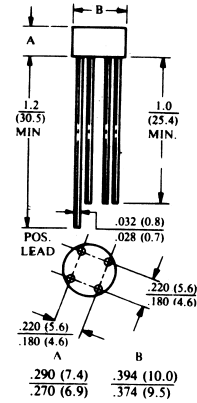
### FEATURES

- Ideal for printed circuit board
- High surge capcability 60A peak
- High case dielectric strength

### MECHANICAL DATA

- Terminal:** Plated leads solderable per MIL-STD 202E, method 208C
- Case:** UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:** Polarity symbol marked on body
- Mounting position:** any

### WOB



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C , unless otherwise stated, for capacitive load, derate current by 20%)

|   | SYMBOL | W005G       | W01G | W02G | W04G | W06G | W08G | W10G | units |
|---|--------|-------------|------|------|------|------|------|------|-------|
| Maximum Recurrent Peak Reverse Voltage  | Vrrm   | 50          | 100  | 200  | 400  | 600  | 800  | 1000 | V     |
| Maximum RMS Voltage   | Vrms   | 35          | 70   | 140  | 280  | 420  | 560  | 700  | V     |
| Maximum DC blocking Voltage   | Vdc    | 50          | 100  | 200  | 400  | 600  | 800  | 1000 | V     |
| Maximum Average Forward Rectified current at Ta=50 °C                             | If(av) | 1.5         |      |      |      |      |      |      | A     |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | Ifsm   | 50          |      |      |      |      |      |      | A     |
| Maximum Instantaneous Forward Voltage at forward current 1.5A                     | Vf     | 1.0         |      |      |      |      |      |      | V     |
| Maximum DC Reverse Voltage Ta=25°C  | Ir     | 10.0        |      |      |      |      |      |      | μ A   |
| at rated DC blocking voltage Ta=125 °C  |        | 1.0         |      |      |      |      |      |      | m A   |
| Typoical Junction Capacitance(Note 1)   | Cj     | 24          |      |      |      |      |      |      | pF    |
| Operating Temperature Range   | Tj     | -55 to +125 |      |      |      |      |      |      | °C    |
| Storage and operation Junction Temperature  | Tstg   | -55 to +150 |      |      |      |      |      |      | °C    |
| Note:<br>1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc              |        |             |      |      |      |      |      |      |       |



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SINGLE PHASE GLASS  
PASSIVATED BRIDGE RECTIFIER

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## RATINGS AND CHARACTERISTIC CURVES W005G THRU W10G

FIG.1-DERATING CURVE

OUTPUT RECTIFIED CURRENT

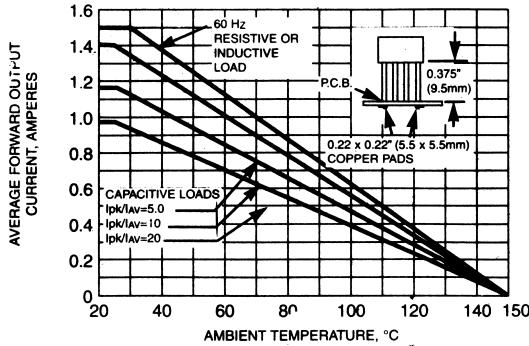


FIG.2-MAXIMUM NON-REPETITIVE PEAK

FORWARD SURGE CURRENT PER LEG

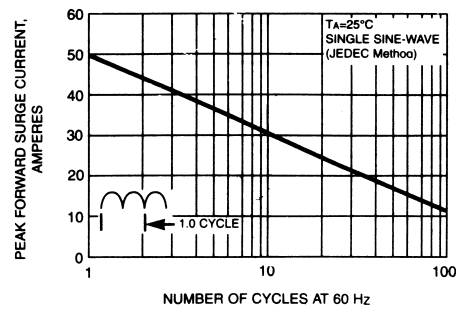


FIG.3-TYPICAL FORWARD CHARACTERISTICS

PER LEG

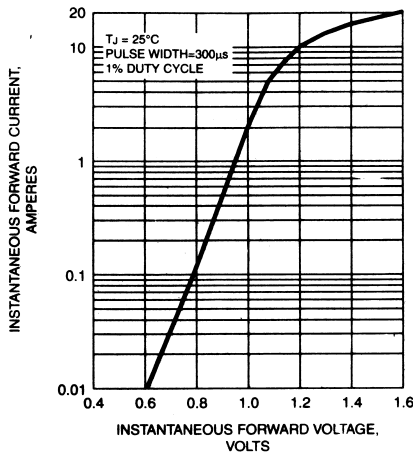


FIG.4-TYPICAL REVERSE CHARACTERISTICS

PER LEG

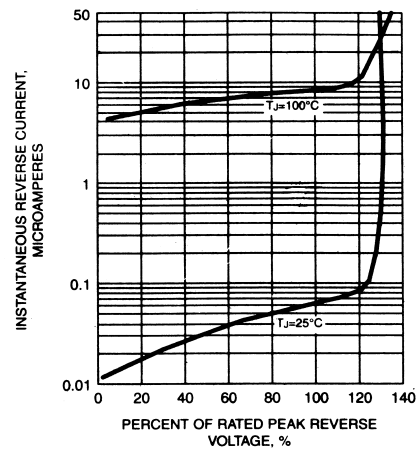


FIG.5-TYPICAL JUNCTION CAPACITANCE

PER LEG

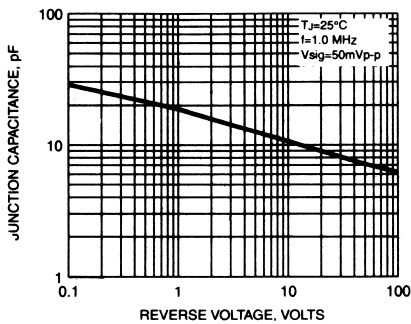


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

