



CHENYI ELECTRONICS

W005G THRU W10G
SINGLE PHASE GLASS
PASSIVATED BRIDGE RECTIFIER
Voltage: 50 TO 1000V CURRENT:1.5A

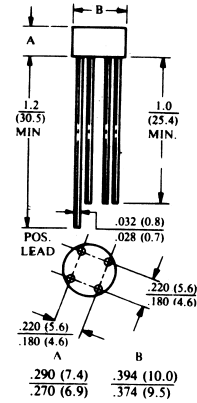
FEATURES

- 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 at rated DC blocking voltage Ta=125 °C | Ir | 10.0 | | | | | | | μ A |
| | | 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: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc | | | | | | | | | |



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RATINGS AND CHARACTERISTIC CURVES W005G THRU W10G

FIG.1-DERATING CURVE

OUTPUT RECTIFIED CURRENT

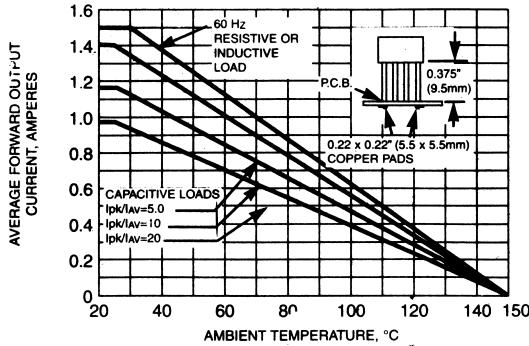


FIG.2-MAXIMUM NON-REPETITIVE PEAK

FORWARD SURGE CURRENT PER LEG

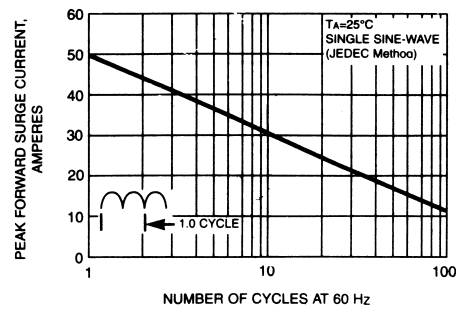


FIG.3-TYPICAL FORWARD CHARACTERISTICS

PER LEG

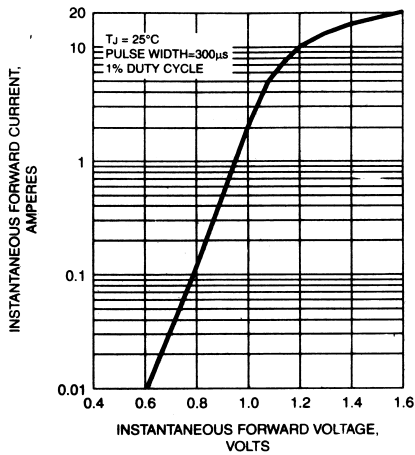


FIG.4-TYPICAL REVERSE CHARACTERISTICS

PER LEG

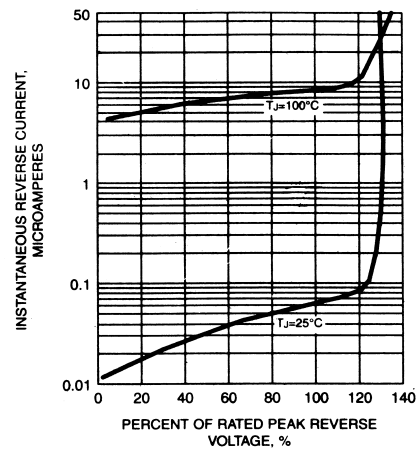


FIG.5-TYPICAL JUNCTION CAPACITANCE

PER LEG

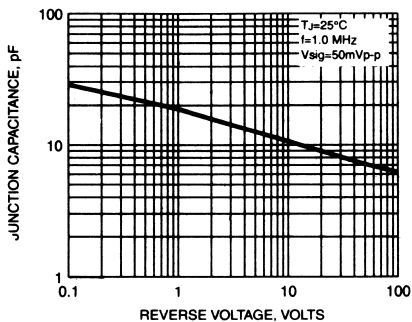


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

