

W005G THRU W10G

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 1.5A

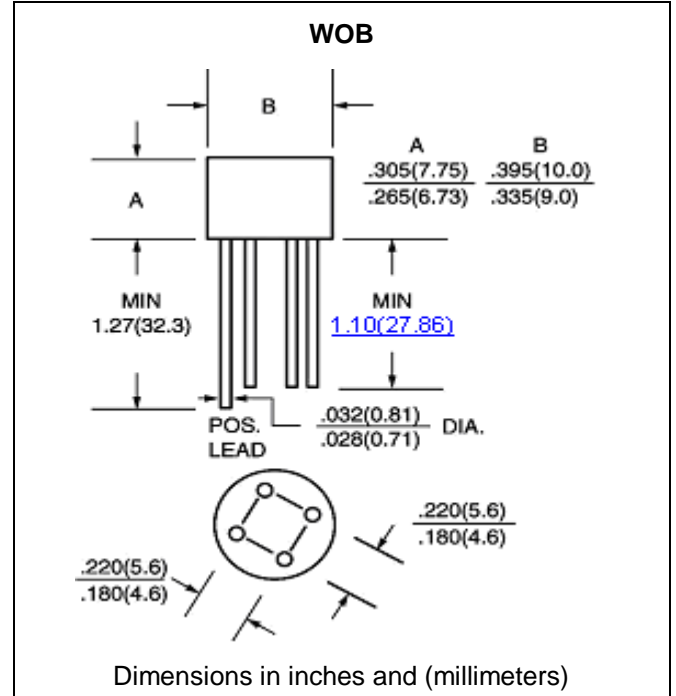


FEATURE

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

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	W005 G	W01 G	W02 G	W04 G	W06 G	W08 G	W10 G	units
Maximum Recurrent 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 Current at Ta =25°C	I _{f(av)}	1.5							A
Peak Forward Surge Current 8.3ms singlehalf sine-wave superimposed on rated load	I _{fsm}	60.0							A
Maximum Instantaneous Forward Voltage at forward current 1.5A	V _f	1.0							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10.0 1.0							μA mA
Typical Junction Capacitance (Note 1)	C _j	24							pF
Storage and Operation Junction Temperature	T _j , T _{stg}	-55 to +150							°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES W005G THRU W10G

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

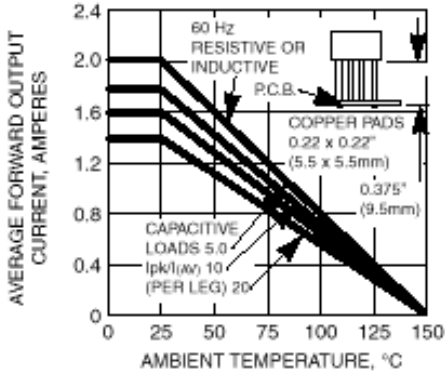


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

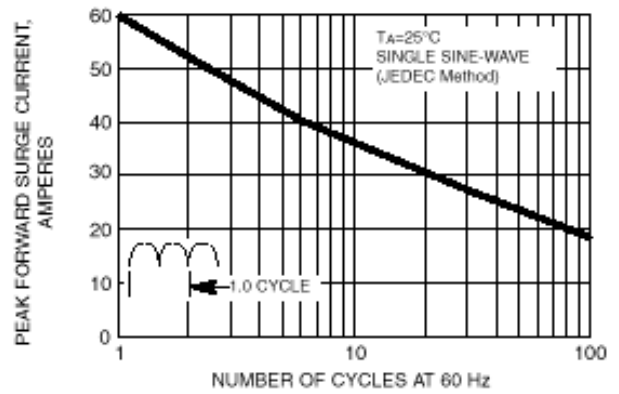


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

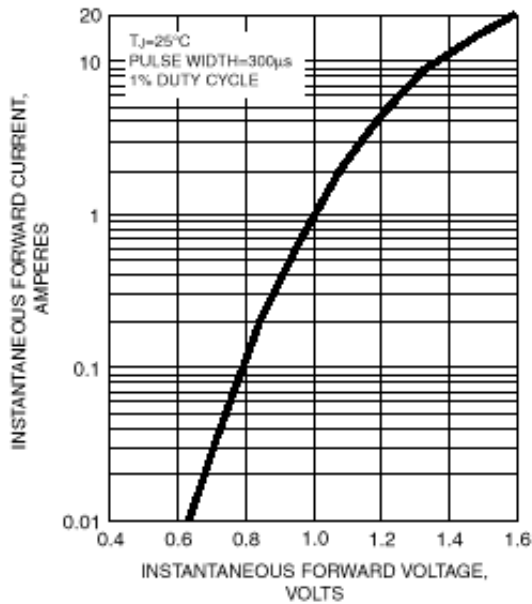


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

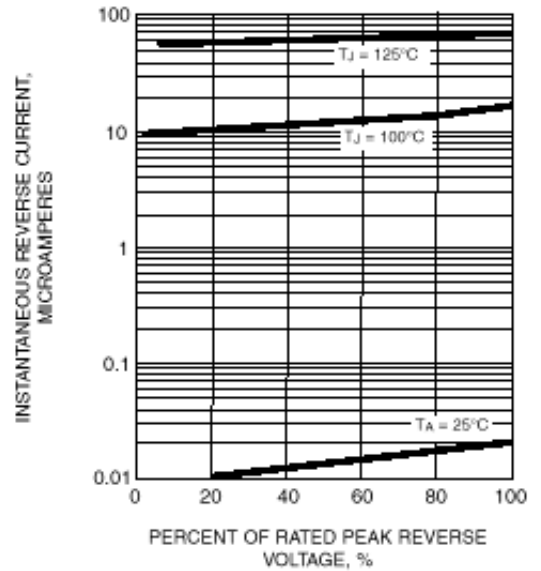


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

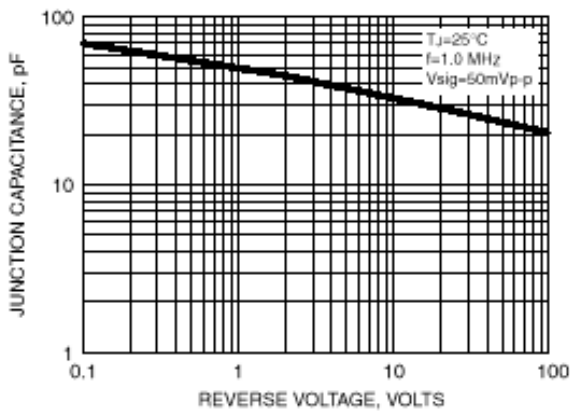


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

