

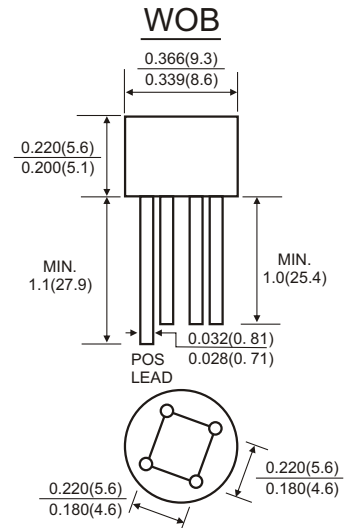
SILICON BRIDGE RECTIFIER

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1.5 Amps

FEATURES

- Surge overload rating - 50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- results inexpensive product
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- Mounting Position: Any



Dimensions in inches and (millimeters)

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%.)

	Symbols	W005	W01	W02	W04	W06	W08	W10	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I_{AV}	1.5							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	40							Amps
Maximum Instantaneous Forward Voltage at 1.5A DC	V_F	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A = 25^\circ C$	10							μA
	$T_A = 100^\circ C$								
Operating junction and storage temperature range	T_J T_{STG}	-40 to +125							$^\circ C$



GAIA TECH

RATINGS AND CHARACTERISTIC CURVES W005 THRU W10

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

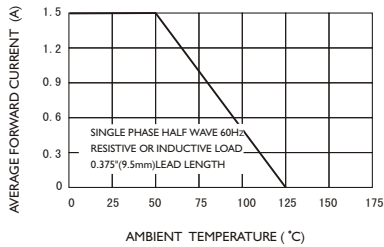


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

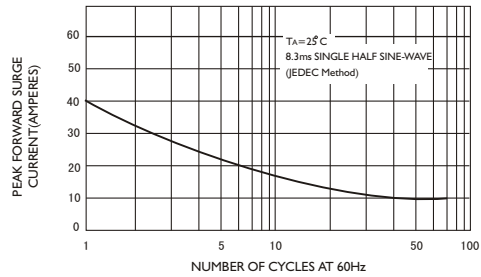


FIG3-TYPICAL FORWARD CHARACTERISTICS

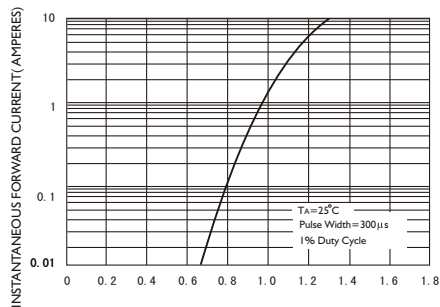


FIG.4-TYPICAL REVERSE CHARACTERISTICS

