

## SILICON BRIDGE RECTIFIER

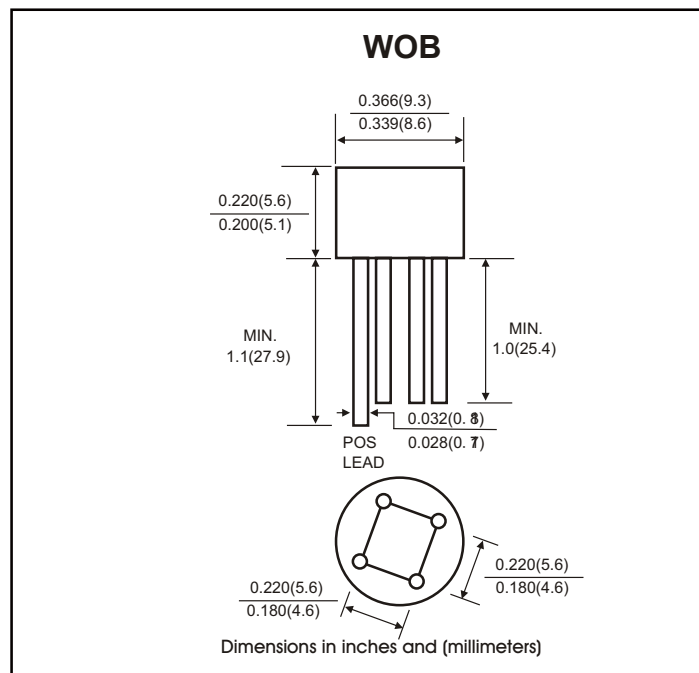
REVERSE VOLTAGE : 50 --- 1000 V CURRENT: 1.5 A

### FEATURES

- Surge overload rating -50A Peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results inexpensive product
- High temperature soldering guarantee: 260°C/ 10 seconds at terminals
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/EC

### MECHANICAL DATA

- Case style: WOB plastic molded
- Mounting Position: Any



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	W005	W01	W02	W04	W06	W08	W10	Units
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	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 <sub>FSM</sub>	40							Amps
Maximum Instantaneous Forward Voltage at 1.0 A DC		V <sub>F</sub>	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T <sub>A</sub> = 25 °C	I <sub>R</sub>	10							μA
	T <sub>A</sub> = 100 °C		500							
Operating junction and storage temperature range		T <sub>J</sub> T <sub>STG</sub>	-40 to +125							°C



# RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

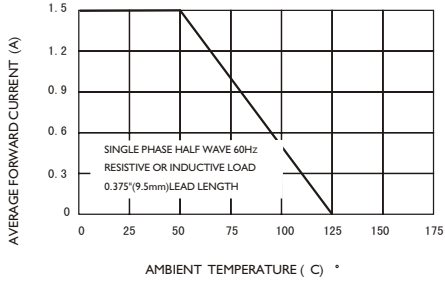


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

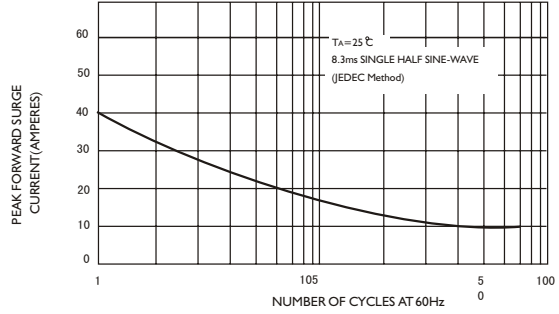


FIG3-TYPICAL FORWARD CHARACTERISTICS

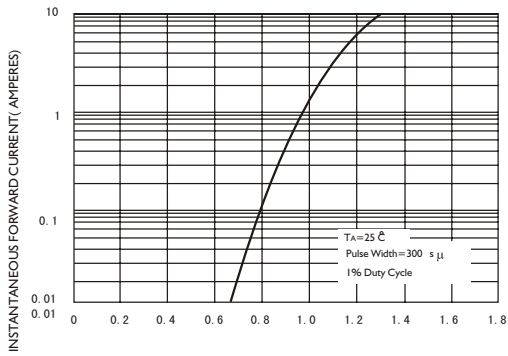


FIG.4-TYPICAL REVERSE CHARACTERISTICS

