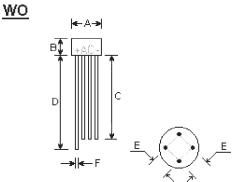


# W005 THRU W10

### SINGLE-PHASE SILICON BRIDGE Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 Amperes

#### Features

- Surge overload rating 50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Mounting Position: Any



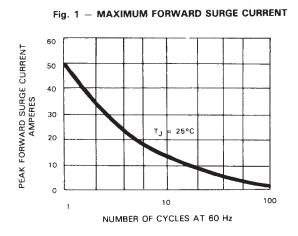
DIMENSIONS									
DIM	inches		m	Nete					
	Min.	Max.	Min.	Max.	Note				
А	0.355	0.395	9.0	10.0	ф				
В	0.265	0.305	6.73	7.75					
С	1.20	-	30.5	-					
D	1.27	-	32.3	-					
E	0.180	0.220	4.6	5.6					
F	0.028	0.032	0.71	0.81	ф				

## **Maximum Ratings and Electrical Characteristics**

Ratings 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 repetitive 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 $T_{\rm A}\text{=}25^\circ\!\!C$	I <sub>(AV)</sub>	1.5							Amps
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50.0							Amps
1 <sup>2</sup> t Rating for fusing (t<8.35ms)	l²t	5.0							A²t
Maximum forward voltage drop per element at 1.0A peak	V <sub>F</sub>	1.0							Volt
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I <sub>R</sub>	10.0 1.0							μA mA
Operating temperature range	T	-55 to +125							°C
Storage temperature range	T <sub>stg</sub>	-55 to +150							°C

## **RATINGS AND CHARACTERISTIC CURVES**



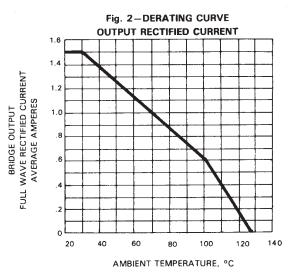
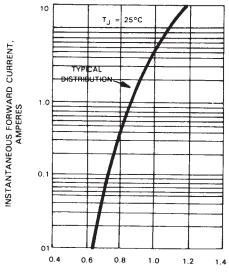


Fig. 3 – TYPICAL FORWARD CHARACTERISTICS



INSTANTEOUS FORWARD VOLTAGE, VOLTS

Fig. 4 — TYPICAL REVERSE CHARACTERISTICS

