



### FEATURES

- Plastic material has Underwriters Laboratories flammability classification 94V-0
- High case dielectric strength
- Typical  $I_R$  less than  $0.1\mu A$
- Surge overload rating - 50 amperes peak
- Ideal for printed circuit boards
- High temperature soldering guaranteed:  
265°C for 10 seconds, 9.5mm lead length

### MECHANICAL DATA

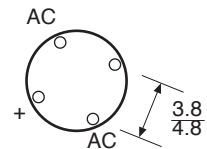
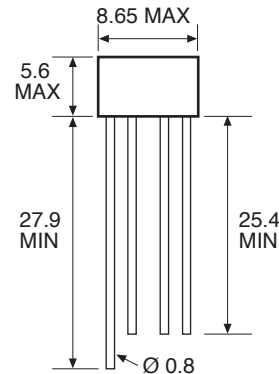
- Case** : Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.
- Terminals** : Leads, solderable per MIL - STD - 202, Method 208.
- Polarity** : Polarity symbols printed on body.
- Weight** : 0.04 ounce, 1.0 grams.

### VOLTAGE RANGE

50 to 1000 Volts PRV

### CURRENT

1.5 Amperes



Dimensions in millimetres

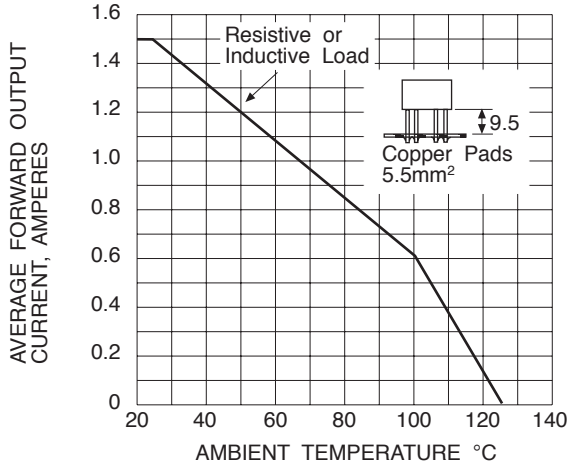
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

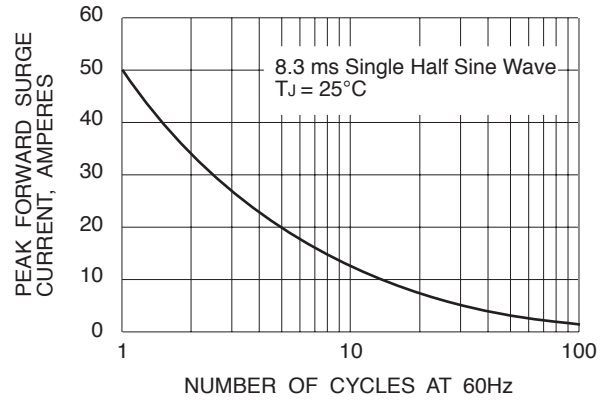
		W005S	W01S	W02S	W04S	W06S	W08S	W10S	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum Bridge Input Voltage RMS	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 9.5mm Lead Lengths at $T_A = 25^\circ C$ (see Fig 1)	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current, 8.3 ms single half sine - wave superimposed on rated load (see Fig 2)	$I_{FSM}$	50.0							A
Rating for Fusing ( $t < 8.35$ ms)	$I^2t$	5.0							$A^2t$
Maximum Forward Voltage Drop per Bridge Element at 1.0A (see Fig 3)	$V_F$	1.0							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element (see Fig 4)	$I_R$	10.0 1.0							$\mu A$ mA
Operating Temperature Range	$T_J$	- 55 to + 125							$^\circ C$
Storage Temperature Range	$T_{STG}$	- 55 to + 150							$^\circ C$

# RATING AND CHARACTERISTIC CURVES W0xS SERIES

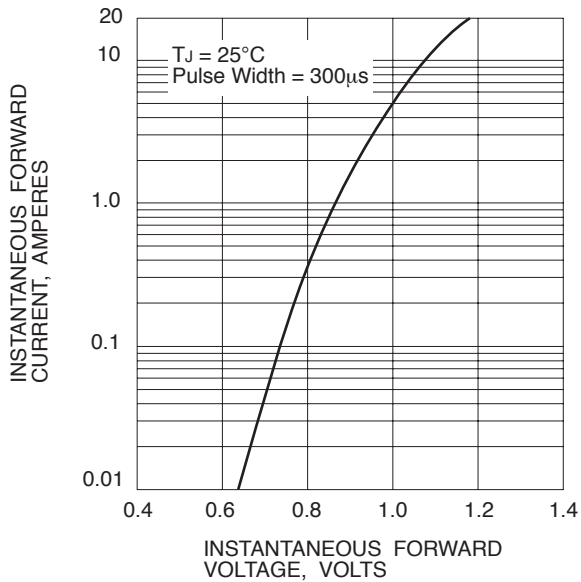
**FIG 1 : DERATING CURVE FOR RECTIFIED OUTPUT CURRENT**



**FIG 2 : MAXIMUM NON-REPETITIVE SURGE CURRENT PER ELEMENT**



**FIG 3 : TYPICAL FORWARD CHARACTERISTICS PER ELEMENT**



**FIG 4 : TYPICAL REVERSE CHARACTERISTICS PER ELEMENT**

