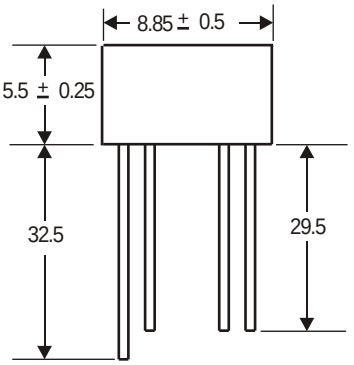
CURRENT 1.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

W005M THRU W10M

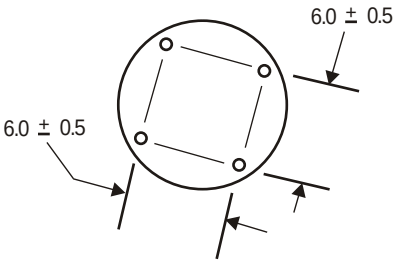
Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Ideal for printed circuit board mounting
- High surge current capability
- High temperature soldering guaranteed 265℃/10 seconds at 5 lbs (2.3kg) tension



Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique
Terminals: Plated leads solderable per MIL-STD-202, Method 208
Mounting Position: Any
Weight: 0.05 ounce, 1.3 grams (approx)



Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	W005M	W01M	W02M	W04M	W06M	W08M	W10M	unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at T_A=25°C	$I_{F(AV)}$	1.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
Rating for fusing (t<8.3ms)	I^2t	10.0							A^2sec
Typical thermal resistance per element (1)	$R_{\theta JA}$	50.0							°C / W
Typical junction capacitance per element (2)	C_j	24.0							pF
Operating junction and storage temperature range	T_J, T_{STG}	-55 to + 150							℃

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	W005M	W01M	W02M	W04M	W06M	W08M	W10M	Unit
Maximum instantaneous forward voltage drop per leg at 1.0A	V_F	1.1							V
Maximum DC reverse current at rated T_A =25°C DC blocking voltage per element T_A =100°C	I_R	10 1000							μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

CURRENT 1.0 Ampere
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Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

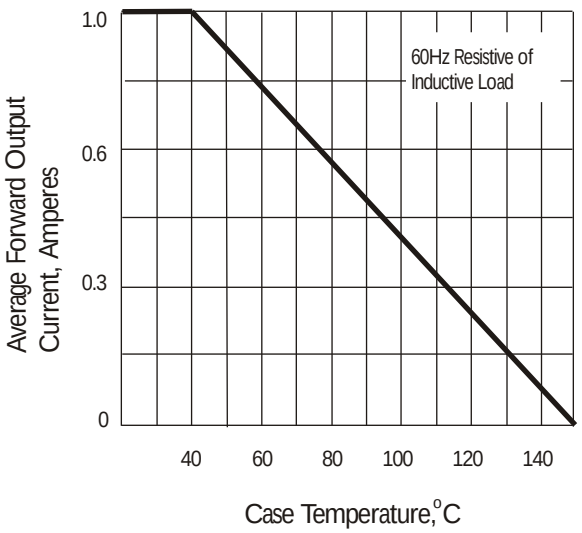

Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

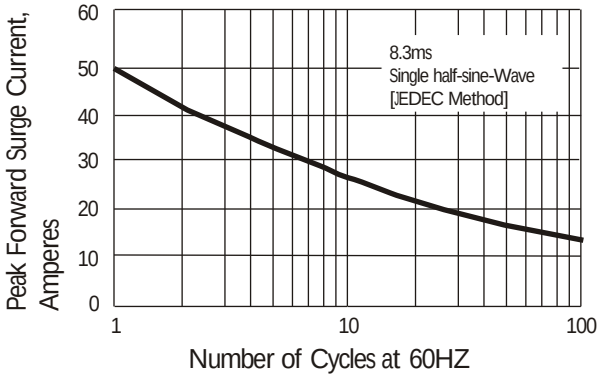

Fig. 3 Typical Instantaneous Forward Characteristics

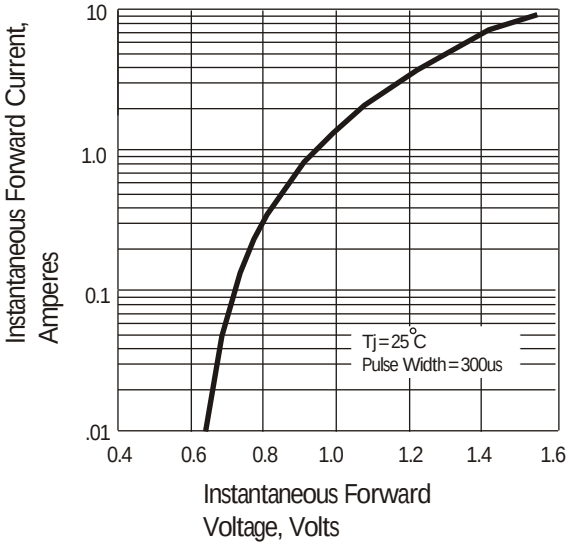

Fig. 4 Typical Reverse Characteristics

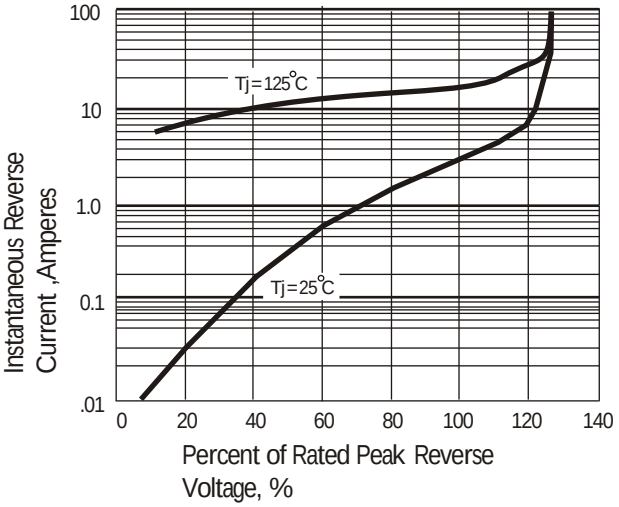

Fig. 5 Typical Junction Capacitance