



## SINGLE-PHASE GLASS PASSIVATED

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes

### FEATURES

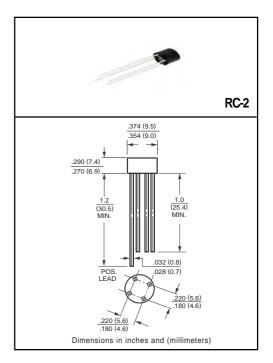
- \* High reverse voltage to 1000V
- \* Surge overload ratings to 50 amperes peak
- \* Good for printed circuit board assembly
- \* Mounting position: Any
- \* Weight: 1.37 grams
- \* Silver-plated copper leads

#### **MECHANICAL DATA**

- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-O



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%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

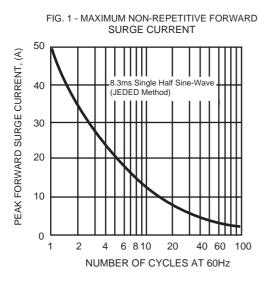
RATINGS	SYMBOL	W005L	W01L	W02L	W04L	W06L	W08L	W10L	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at TA = 50°C	lo	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave	IFSM 50							Amps	
superimposed on rated load (JEDEC method)	IFSM	30							
Typical Thermal Resistance	RθJA	40							°C/W
	RθJC	22							
Operating Temperature Range	TJ	-55 to + 150							٥C
Storage Temperature Range	Tstg	-55 to + 150							٥C

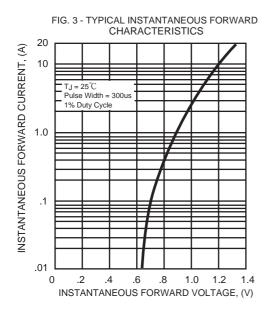
#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	W005L	W01L	W02L	W04L	W06L	W08L	W10L	UNITS
Maximum Forward Voltage Drop per element at 1.5A DC		Vf	1.0							Volts
Maximum Reverse Current at Rated	@TA = 25°C	In	5.0							uAmps
DC Blocking Voltage per element	@Ta = 125°C	- IR	0.5							mAmps

Note: 1. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

### RATING AND CHARACTERISTIC CURVES (W005L THRU W10L)





#### FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

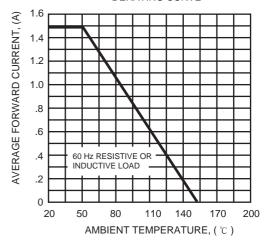
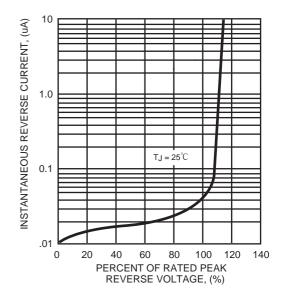


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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