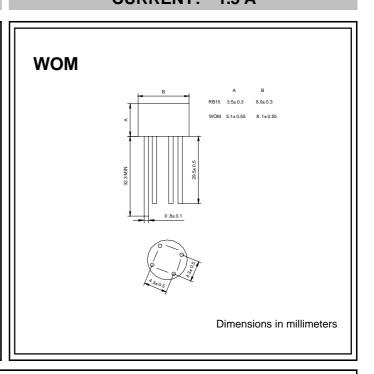


# SILICON BRIDGE RECTIFIERS

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

## **FEATURES**

- Surge overload rating to 50 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Plastic material has UL flammability recognition94V-O
- ♦ Weight: 0.050 ounces,1.42 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

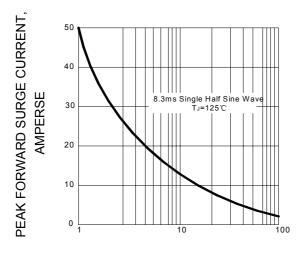
Ratings at 25°C ambient temperature unless otherwise specified.

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

		W005L	W01L	W02L	W04L	W06L	W08L	W10L	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS 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 forw ard  Output current @T <sub>A</sub> =25°C	I <sub>F(AV)</sub>	1.5						А	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	50.0							А
Maximum instantaneous forw ard voltage at 1.0 A	V <sub>F</sub>	1.0						V	
Maximum reverse current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 100^{\circ}C$	I <sub>R</sub>	5.0 0.5							μA mA
Operating junction temperature range	TJ	- 55 + 150							$^{\circ}$
Storage temperature range	T <sub>STG</sub>	- 55 + 150							C

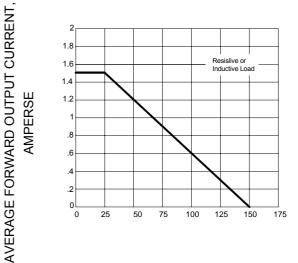
www.galaxycn.com

### FIG.1 - PEAK FORWARD SURGE CURRENT



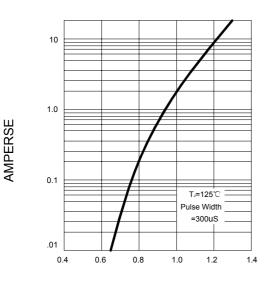
NUMBER OF CYCLES AT 60Hz

#### FIG.2 - FORWARD DERATING CURVE



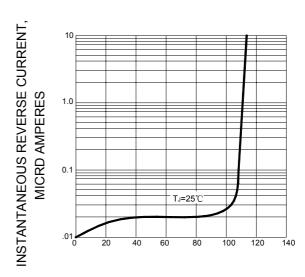
AMBIENT TEMPERATURE, °C

#### FIG.3 - TYPICAL FORWARD CHARACTERISTIC



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

#### FIG.4 - TYPICAL REVERSE CHARACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE

2.

**NSTANTANEOUS FORWARD CURRENT,**