

# Silicon Bridge Rectifier



## Features:

- Surge overload rating 50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in expensive product

## Specifications:

Reverse Voltage : 50 to 1,000Volts  
Forward Current : 1.5 Amperes  
Mounting position : Any

## Maximum Ratings And Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Characteristics	Symbol	W005	W01	W02	W04	W06	W08	W10	Unit
Max. Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1,000	V
Max. RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Max. DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1,000	V
Max. Average Forward Rectified Current @ $T_A = 25^\circ C$	$I_{(AV)}$	1.5							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	$I_{FSM}$	50							A
$I^2t$ Rating for Fusing (t < 8.3ms)	$I^2t$	5							A <sup>2</sup> s
Max. Forward Voltage Drop Per Element at 1.5A Peak	$V_F$	1.1							V
Max. Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ C$ $T_J = 100^\circ C$	$I_R$	10 1							$\mu A$ mA
Operating Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

## Rating And Characteristic Curves:

FIG.1-MXIMUM NON-REPETITIVE SURGE CURRENT

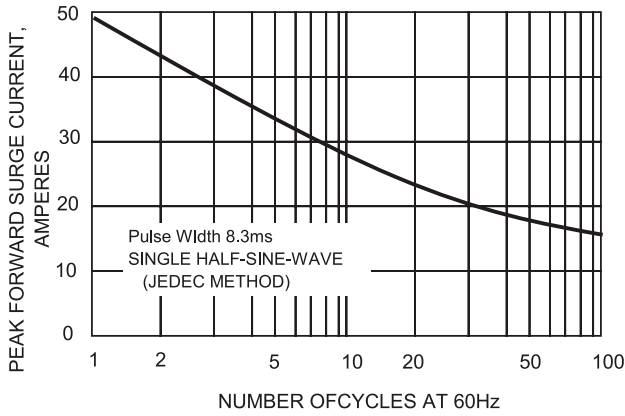


FIG.2-DERATING CURVE OUTPUT RECTIFIED CURRENT

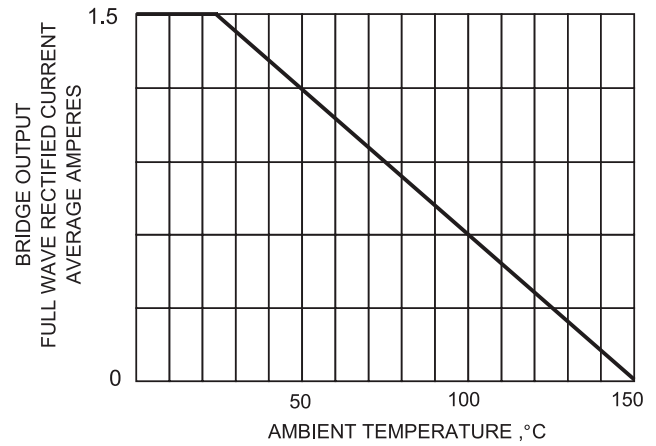


FIG.3-TYPICAL FORWARD CHARACTERISTICS

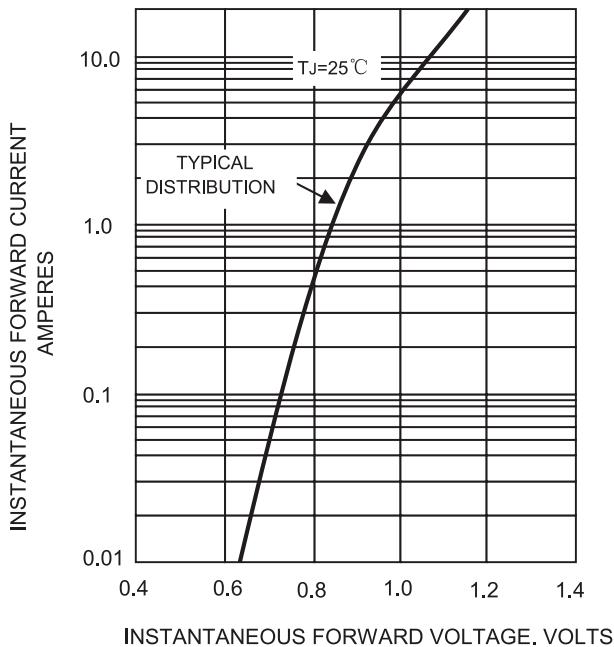
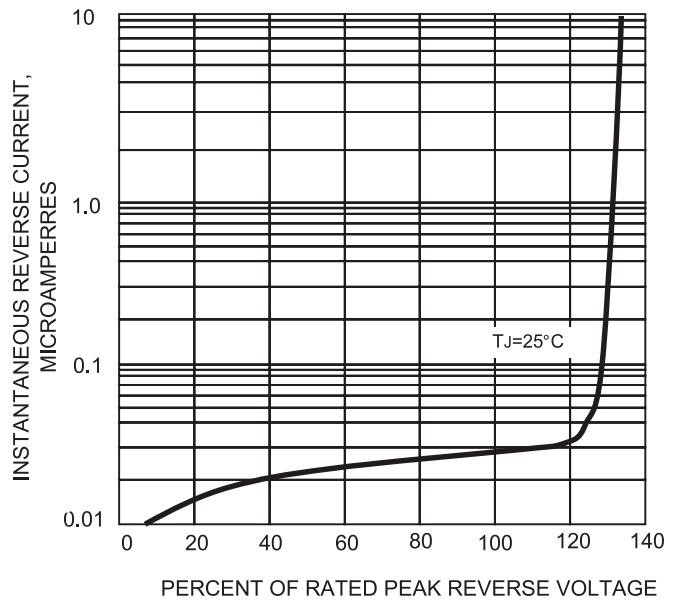


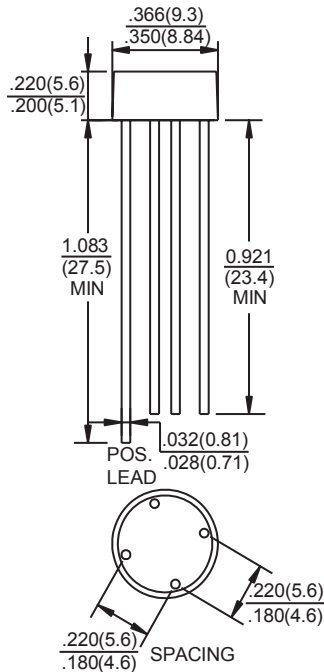
FIG.4-TYPIACL REVERSE CHARACTERISTICS



# Silicon Bridge Rectifier



## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Bridge Rectifier, Single Phase, 1.5A, 50V, RB-15	W005
Bridge Rectifier, Single Phase, 1.5A, 100V, RB-15	W01
Bridge Rectifier, Single Phase, 1.5A, 200V, RB-15	W02
Bridge Rectifier, Single Phase, 1.5A, 400V, RB-15	W04
Bridge Rectifier, Single Phase, 1.5A, 600V, RB-15	W06
Bridge Rectifier, Single Phase, 1.5A, 800V, RB-15	W08

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