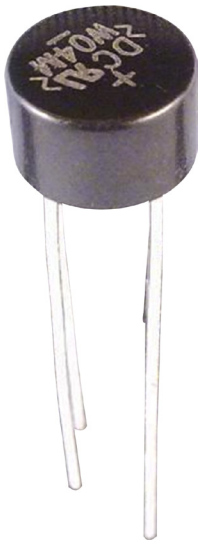
Silicon Bridge Rectifier



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°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^2s
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°C T_J = 100°C	I_R	10 1							µA 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

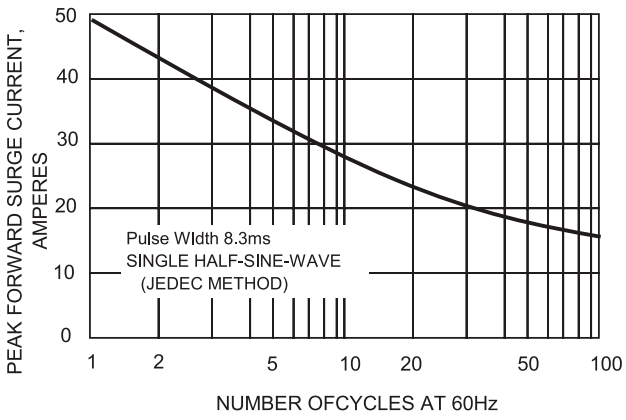


FIG.2-DERATING CURVE OUTPUT RECTIFIED CURRENT

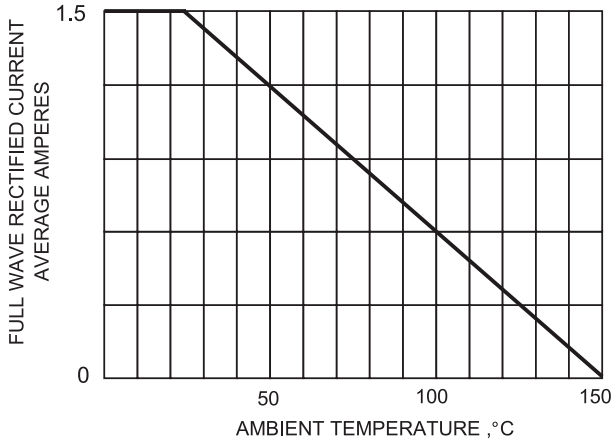


FIG.3-TYPICAL FORWARD CHARACTERISTICS

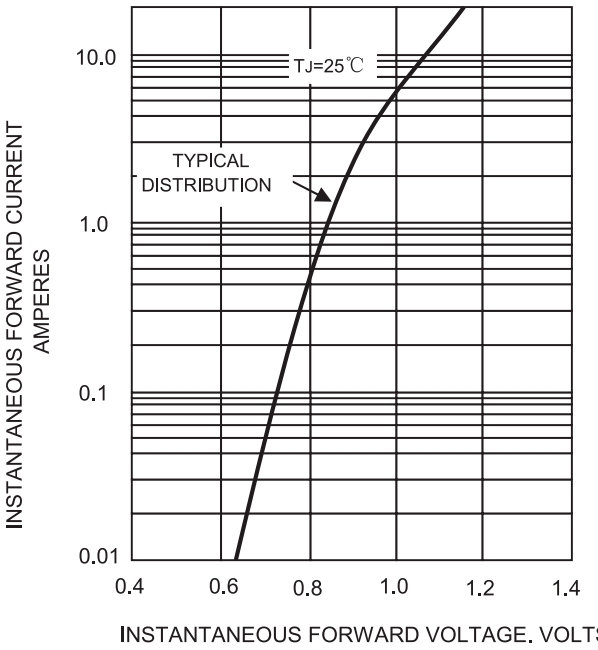
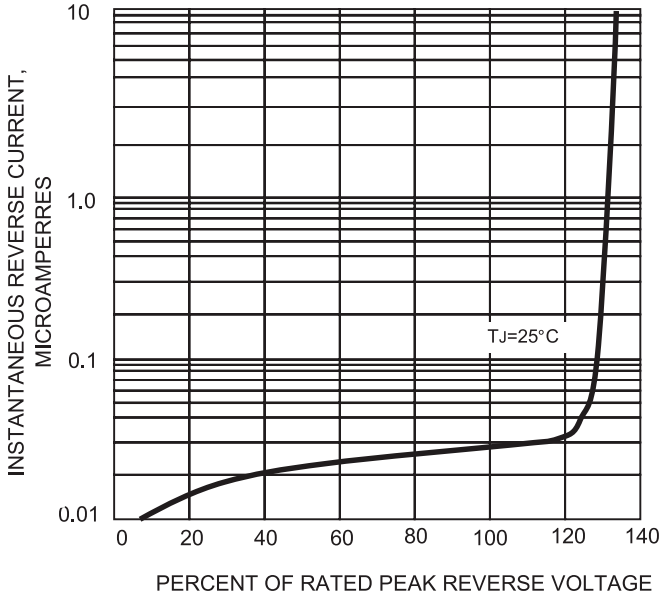


FIG.4-TYPIACL REVERSE CHARACTERISTICS



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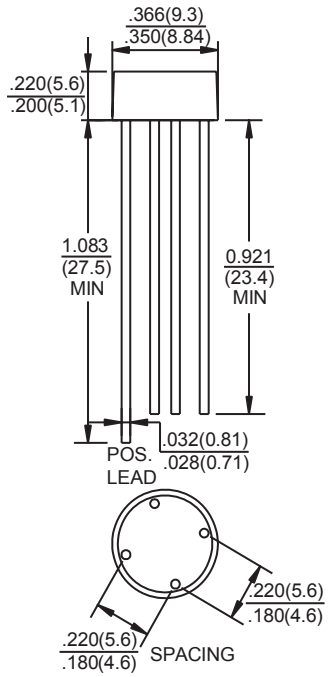
Dimensions:



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