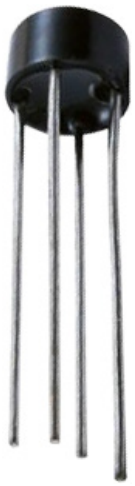
Silicon Bridge Rectifier



Features:

- Surge overload rating 60 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in expensive product

Specifications:

Lead : Sliver plated copper lead
Reverse Voltage : 50 to 1,000Volts
Forward Current : 2 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	2W005	2W01	2W02	2W04	2W06	2W08	2W10	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 0.375" (9.5mm)Lead Lengths @T_A = 25°C	$I_{(AV)}$	2							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
I^2t Rating for Fusing (t<8.3ms)	I^2t	15							A^2s
Max. Forward Voltage Drop Per Element at 2.0A Peak	V_F	1.1							V
Max. DC Reverse Current at Rated DC Blocking Voltage T_J = 25°C T_J = 100°C	I_R	10 1							µA mA
Typical Junction Capacitance Per Element (Note1)	C_J	30							pF
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note1 : Measured at 1MHz and applied reverse voltage of 4V DC

Rating And Characteristic Curves:

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

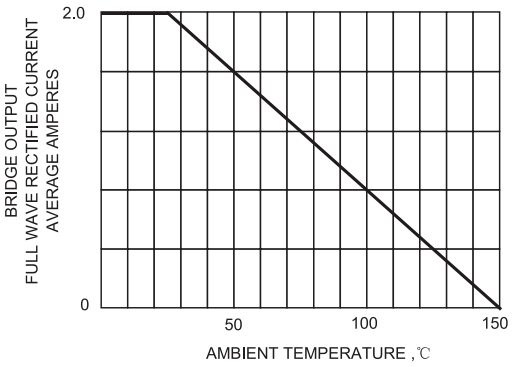


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

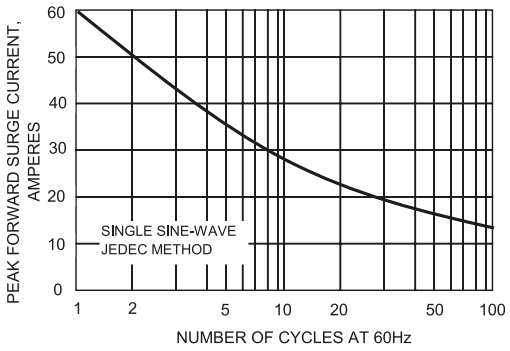


FIG.3-TYPICAL REVERSE CHARACTERISTICS

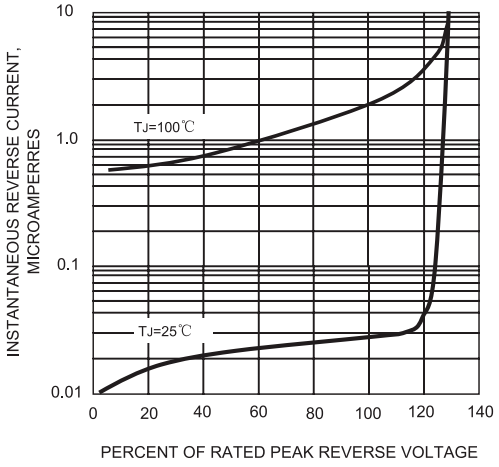


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

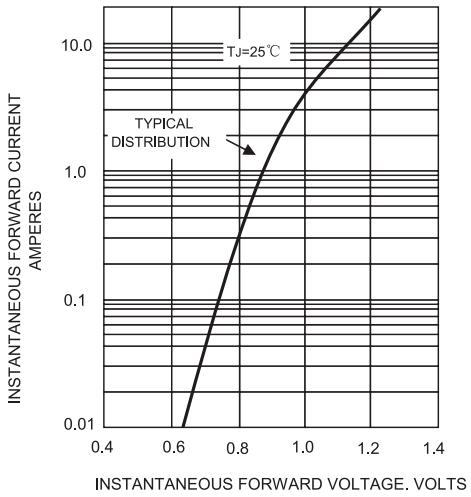
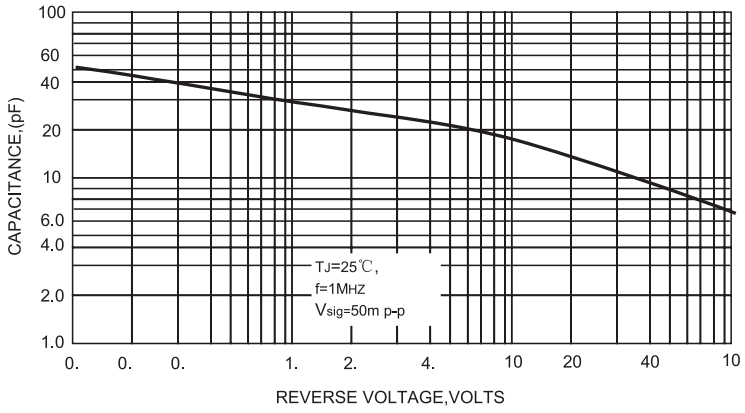
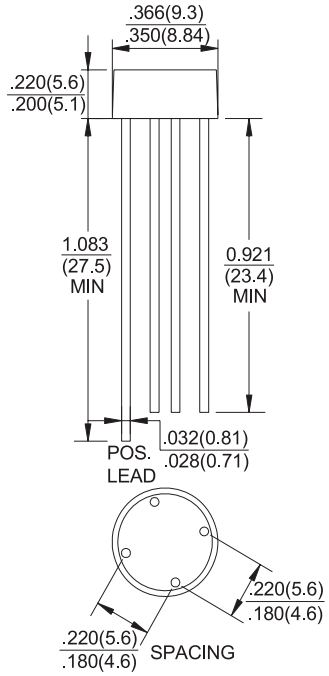


FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



Silicon Bridge Rectifier

Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Silicon Bridge Rectifier, Single Phase, 2A, 50V, WOB	2W005
Silicon Bridge Rectifier, Single Phase, 2A, 100V, WOB	2W01
Silicon Bridge Rectifier, Single Phase, 2A, 200V, WOB	2W02
Silicon Bridge Rectifier, Single Phase, 2A, 400V, WOB	2W04
Silicon Bridge Rectifier, Single Phase, 2A, 600V, WOB	2W06
Silicon Bridge Rectifier, Single Phase, 2A, 800V, WOB	2W08
Silicon Bridge Rectifier, Single Phase, 2A, 1,000V, WOB	2W10