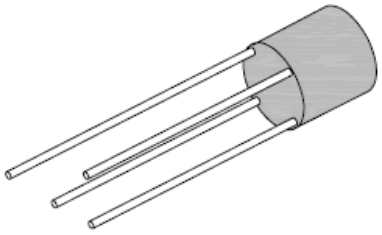
2.0A Bridge Rectifiers



2WOM

Features

- Low reverse leakage current
- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:
  260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs (2.3kg) tension
- This series is UL recognized under component index, File number E194718

Mechanical Data

Case:	Molded plastic body
Terminals:	Lead solderable per MIL-STD-202E, Method 208C
Polarity:	As marked on case
Weight:	0.05 ounce, 1.42 gram

Maximum Ratings And Electrical Characteristics (T_{amb}=25˚C)

Symbols	Parameter	2W 005M	2W 01M	2W 02M	2W 04M	2W 06M	2W 08M	2W 10M	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	2.0							A	T_A=50˚C
I_{FSM}	Peak Forward Surge Current	50							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Maximum Instantaneous Forward Voltage Drop per leg	1.1							V	I_F=2.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	T_A=25°C
		500								T_A=100°C
I^2t	Rating for Fusing (1ms<t<8.3ms)	10							A^2S	

Symbols	Parameter	2W 005M	2W 01M	2W 02M	2W 04M	2W 06M	2W 08M	2W 10M	Unit	Conditions
C_J	Typical Junction Capacitance	15							pF	V_R=4V, f=1MHz
$R_{\theta JA}$	Typical Thermal Resistance per leg	40							˚C/W	Note 1
T_J	Operating Temperature Range	-55 to +125							V	
T_{STG}	Storage Temperature Range	-55 to +150							˚C	

Note: 1. Unit mounted on P.C. board with 0.22 x 0.22" (5.5 x 5.5mm) copper pads, .375" (9.5mm) lead length.

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

Rating and characteristic curves

Fig.1- Derating Curve Output Rectified Current

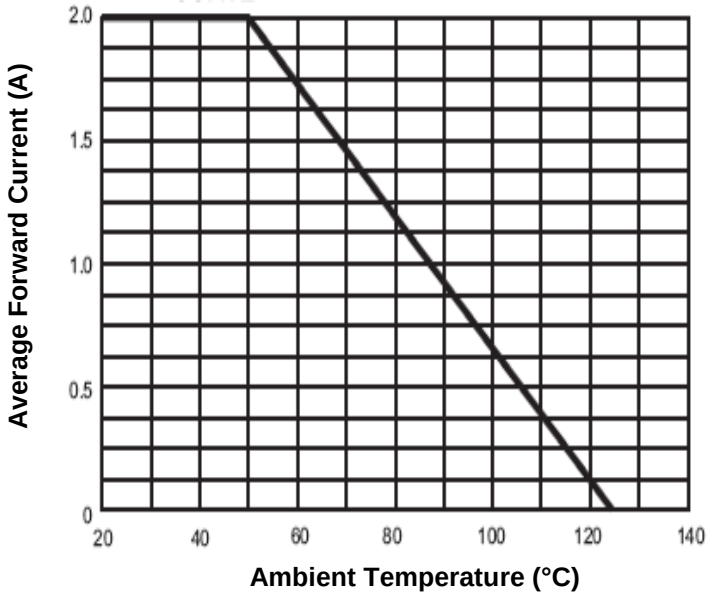


Fig.2-Max Non-Repetitive Peak Forward Surge Current

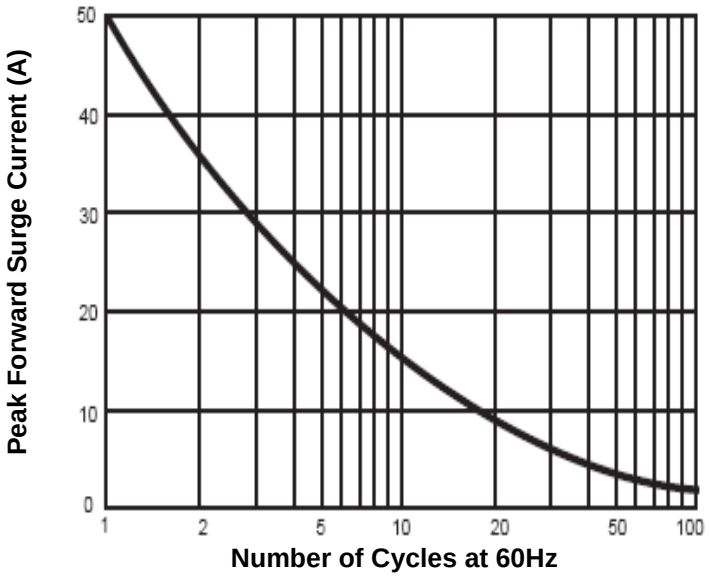


Fig.3- Typical Instantaneous Forward Characteristics, per leg

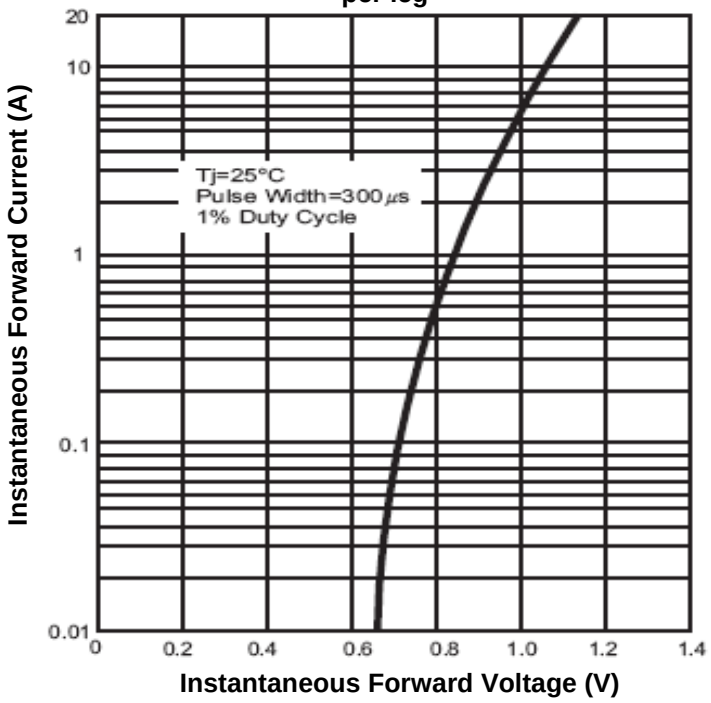


Fig.4-Typical Reverse Leakage Characteristics per leg

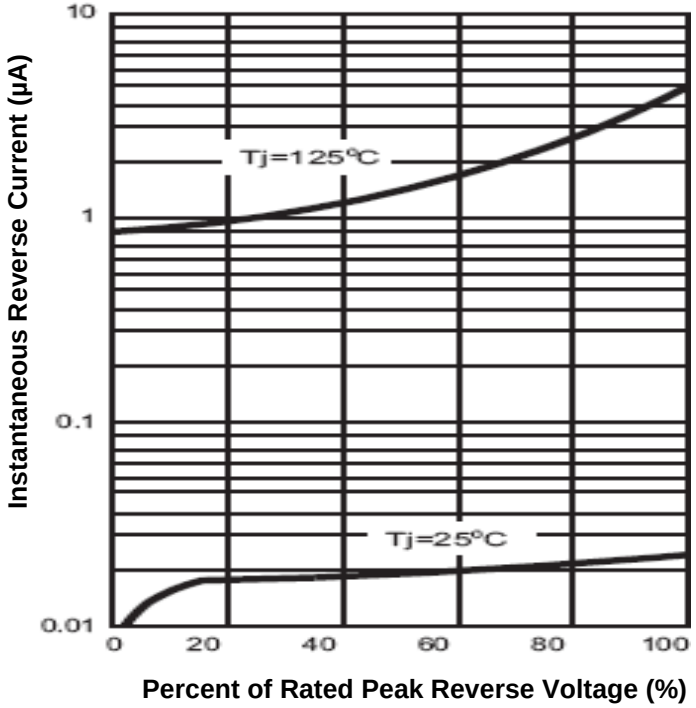
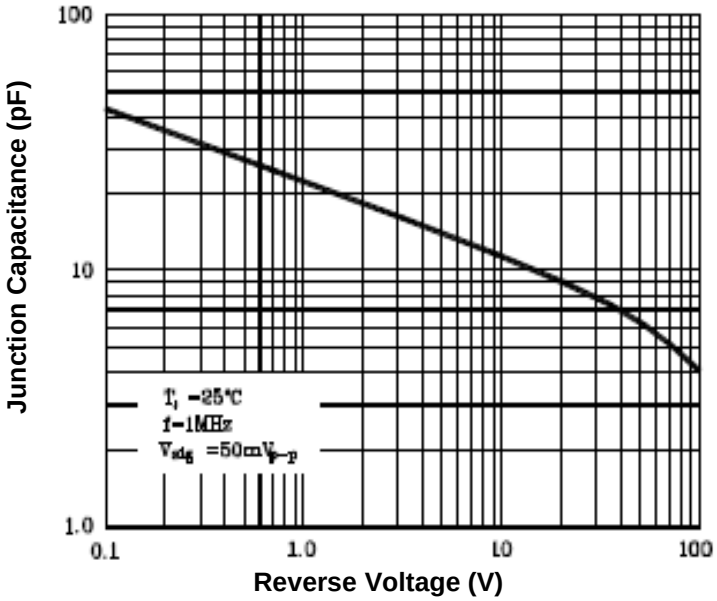
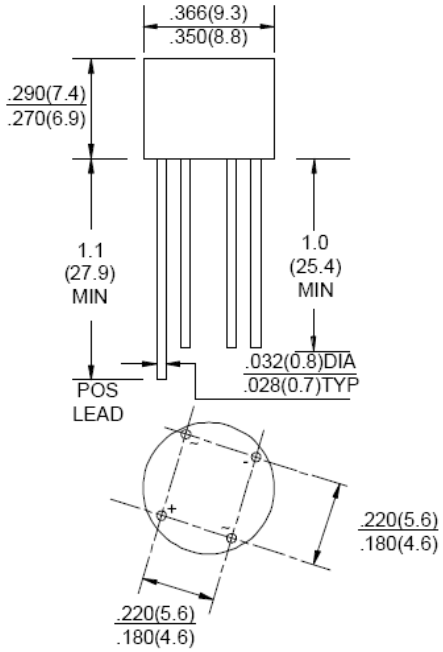


Fig.5-Typical Junction Capacitance per leg



Dimensions in inch (mm)



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