

Single Phase Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 400\text{ V}$
 $I_O = 2\text{ A}$

Features

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current
- High temperature soldering guaranteed: 250°C/ 10 seconds, 0.375" lead length, .5 lbs (2.3kg) tension
- Types from 50 V up to 400 V V_{RRM}
- Not ESD Sensitive

Mechanical Data

Case: Molded plastic body

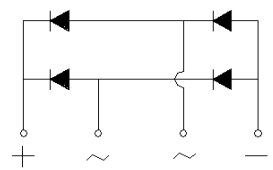
Terminals: Plated leads, solderable per MIL-STD-202 Method 208 guaranteed

Polarity: Color band on body denotes cathode end

Mounting position: Any

Weight: 1.1 grams

WOM Package



Maximum ratings at $T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	2W005M	2W01M	2W02M	2W04M	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Operating temperature	T_j		-65 to 125	-65 to 125	-65 to 125	-65 to 125	$^\circ\text{C}$
Storage temperature	T_{stg}		-65 to 150	-65 to 150	-65 to 150	-65 to 150	$^\circ\text{C}$

Electrical characteristics at $T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified

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

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	2W005M	2W01M	2W02M	2W04M	Unit
Maximum average forward rectified current	I_O	$T_a = 50\text{ }^\circ\text{C}$	2	2	2	2	A
Peak forward surge current	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	60	60	60	60	A
Maximum instantaneous forward voltage drop per bridge element	V_F	$I_F = 2\text{ A}$	1.1	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_a = 25\text{ }^\circ\text{C}$ $T_a = 100\text{ }^\circ\text{C}$	10 500	10 500	10 500	10 500	μA

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

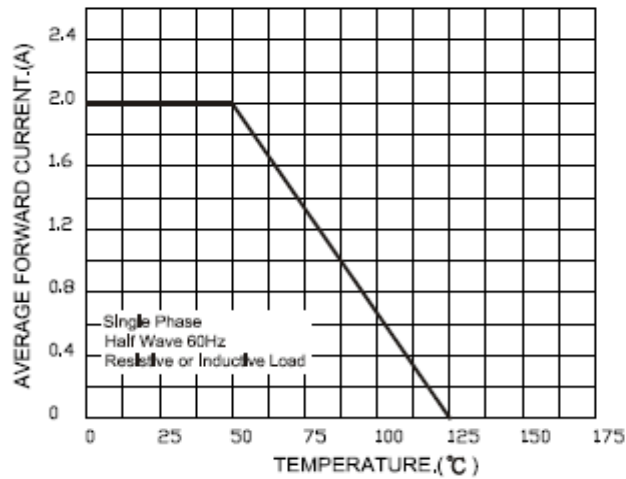


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

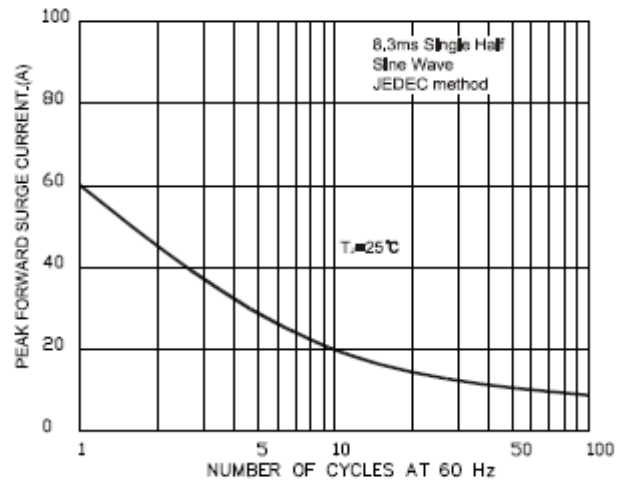


FIG.3-TYPICAL FORWARD CHARACTERISTICS

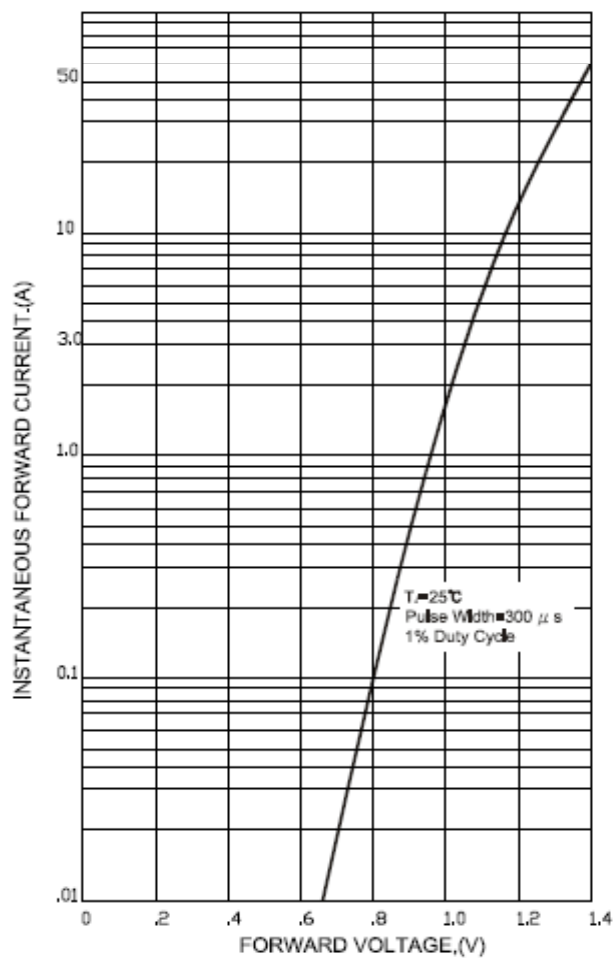
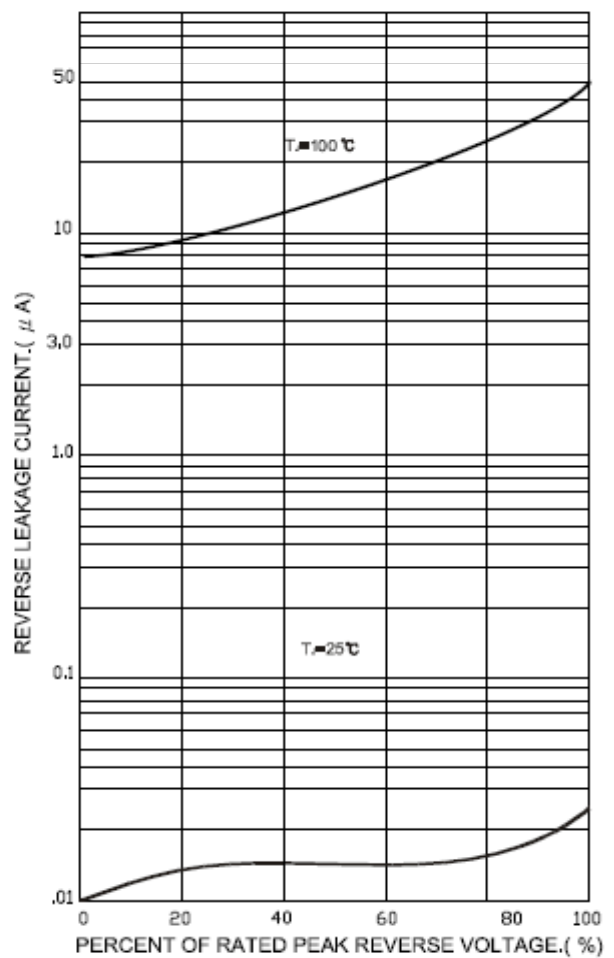
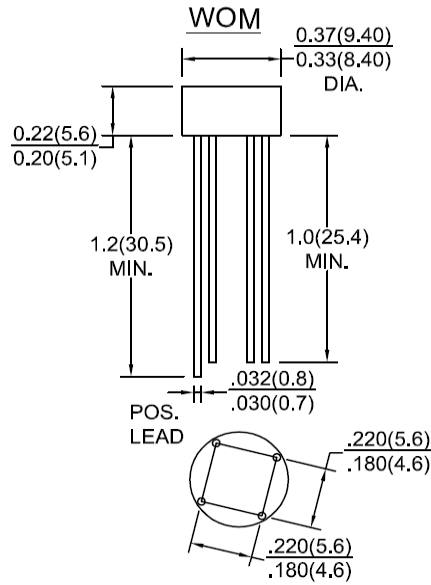


FIG.4-TYPICAL REVERSE CHARACTERISTICS

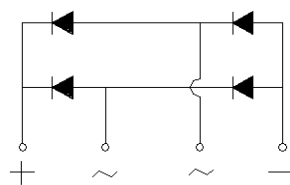


Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[GeneSiC Semiconductor:](#)

[2W005M](#) [2W01M](#) [2W02M](#) [2W04M](#)