

# Single Phase Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 400\text{ V}$   
 $I_O = 1.5\text{ A}$

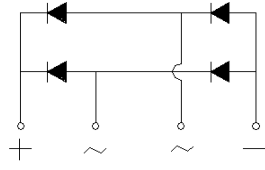
## Features

- Ideal for printed circuit board
- Low forward voltage drop
- Low leakage current
- Types from 50 V up to 400 V VRRM
- 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: 1.07 grams

WOM Package



## Maximum ratings at Tc = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	W005M	W01M	W02M	W04M	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	°C
Storage temperature	$T_{stg}$		-65 to 150	-65 to 150	-65 to 150	-65 to 150	°C

## Electrical characteristics at Tc = 25 °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	W005M	W01M	W02M	W04M	Unit
Maximum average forward rectified current	$I_O$	$T_a = 50\text{ °C}$	1.5	1.5	1.5	1.5	A
Peak forward surge current	$I_{FSM}$	$t_p = 8.3\text{ ms}$ , half sine	50	50	50	50	A
Maximum instantaneous forward voltage drop per bridge element	$V_F$	$I_F = 1.0\text{ A}$	1.0	1.0	1.0	1.0	V
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_a = 25\text{ °C}$ $T_a = 100\text{ °C}$	10 500	10 500	10 500	10 500	$\mu\text{A}$

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

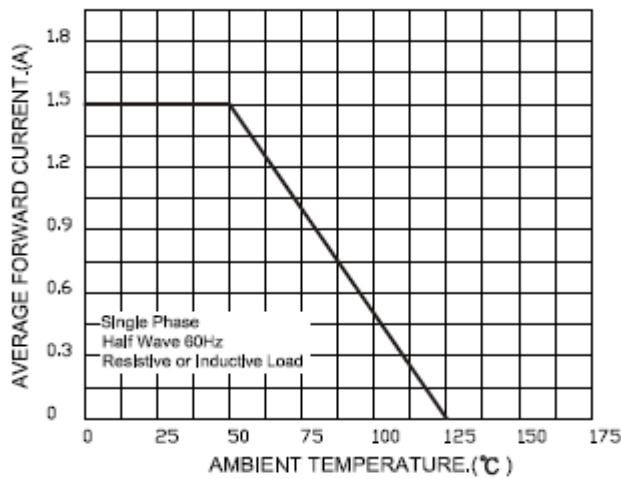


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

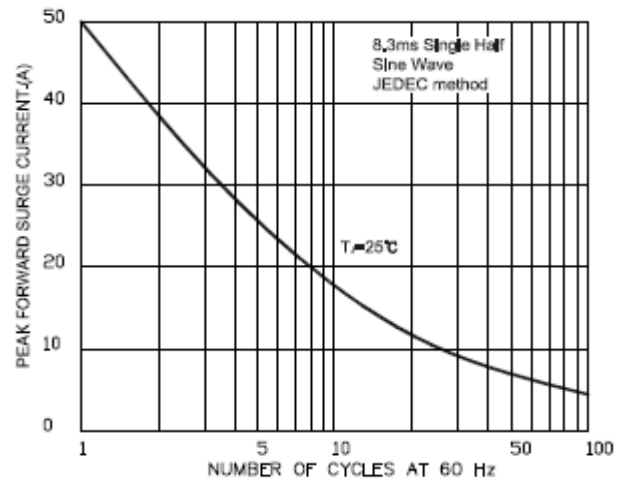


FIG.3-TYPICAL FORWARD CHARACTERISTICS

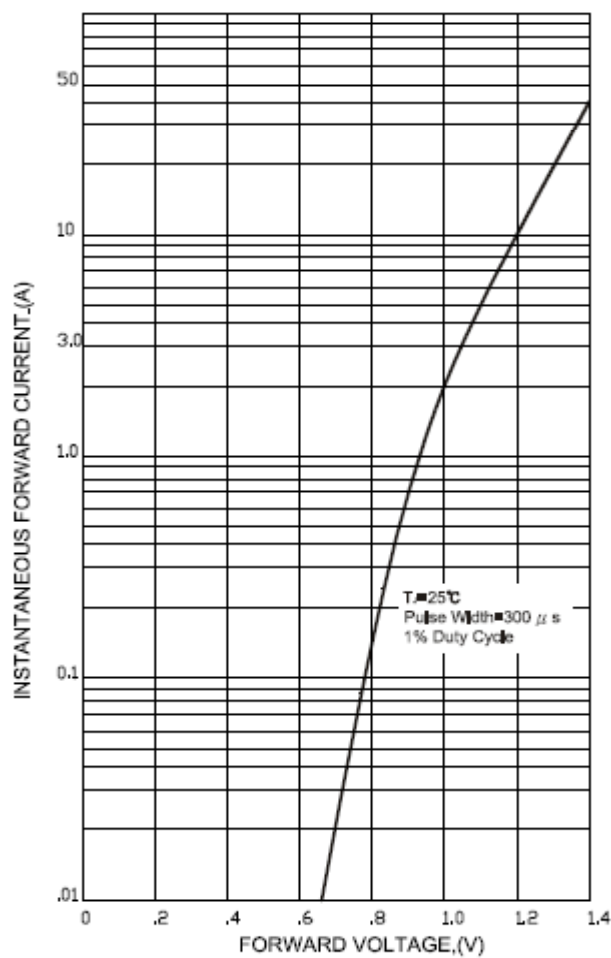
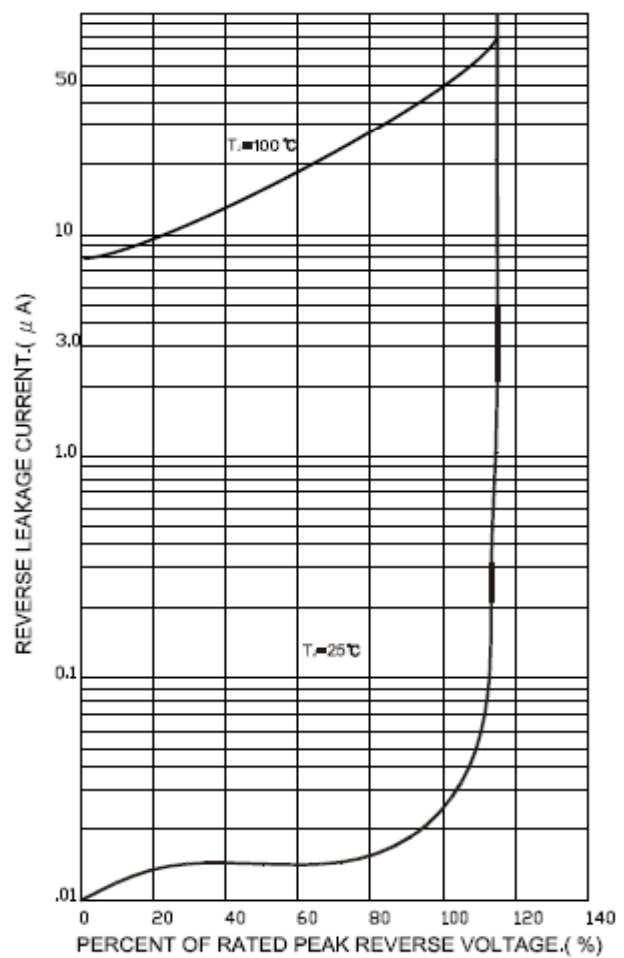
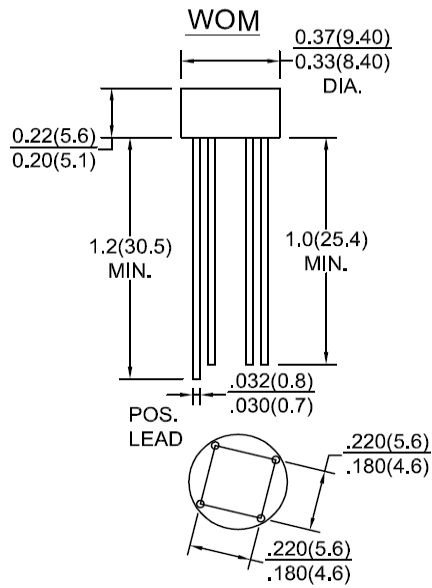


FIG.4-TYPICAL REVERSE CHARACTERISTICS



**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)

