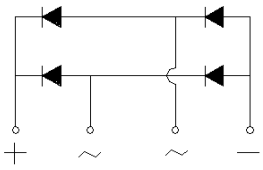
Single Phase Silicon Bridge Rectifier

V_{RRM} = 50 V - 400 V
I_O = 1.5 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

WOM Package



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

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 °C	1.5	1.5	1.5	1.5	A
Peak forward surge current	I_{FSM}	t_p = 8.3 ms, half sine	50	50	50	50	A
Maximum instantaneous forward voltage drop per bridge element	V_F	I_F = 1.0 A	1.0	1.0	1.0	1.0	V
Maximum DC reverse current at rated DC blocking voltage	I_R	T_a = 25 °C T_a = 100 °C	10 500	10 500	10 500	10 500	µA

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

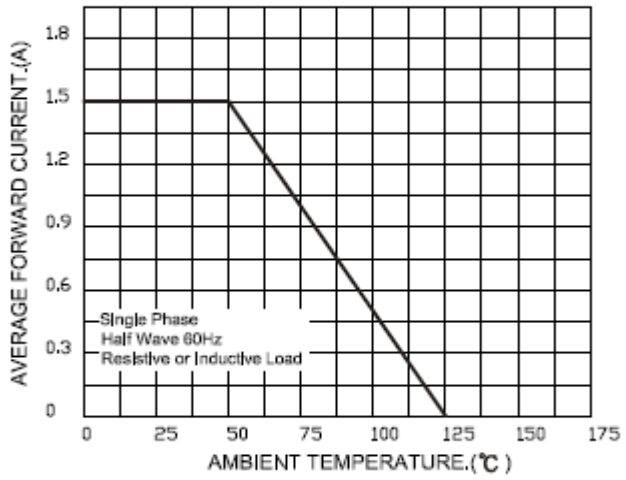


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

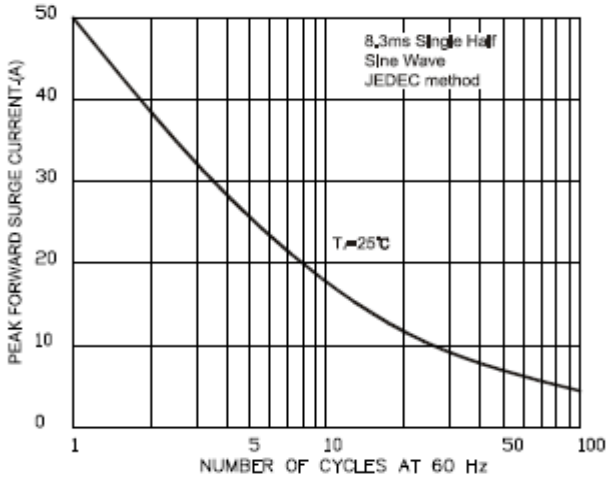


FIG.3-TYPICAL FORWARD CHARACTERISTICS

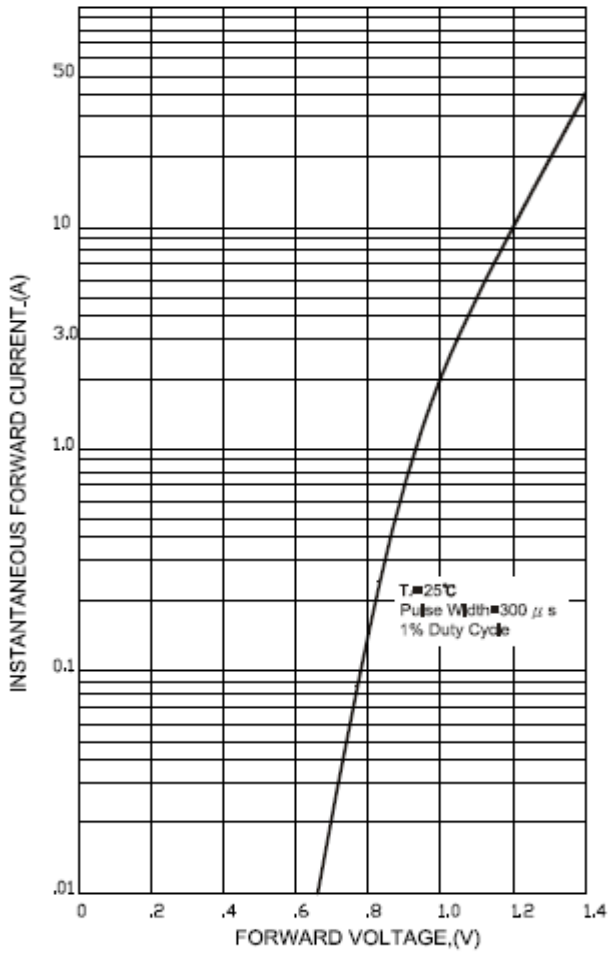
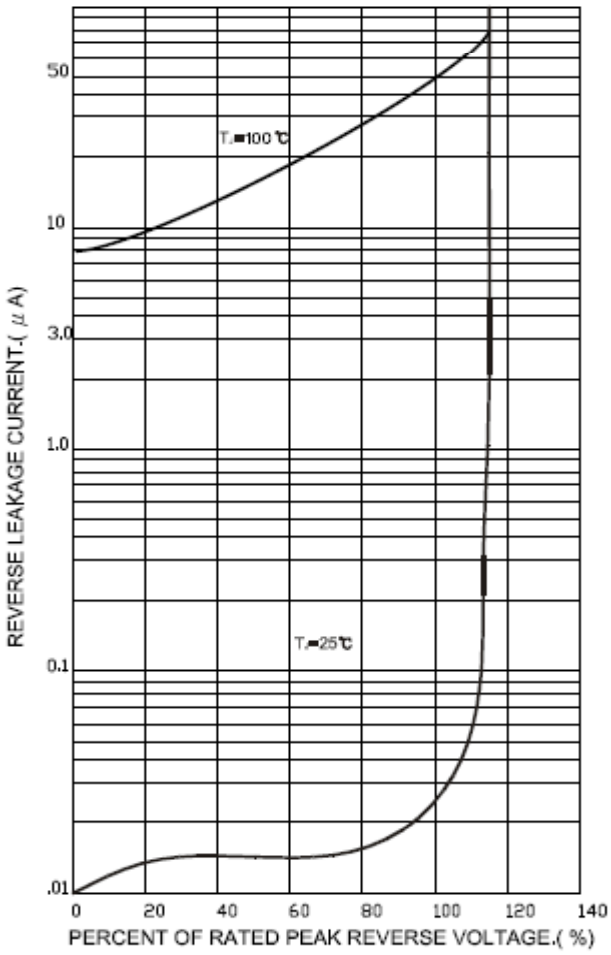
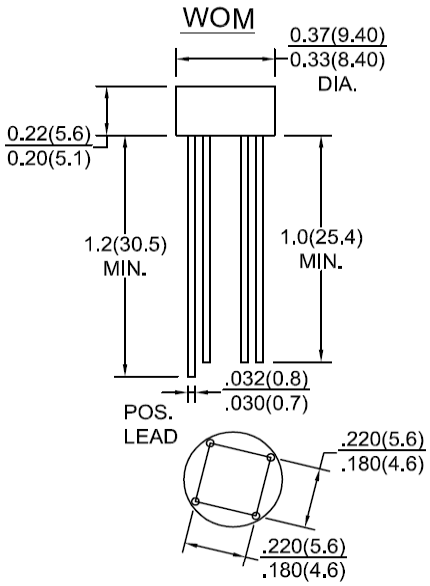


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)