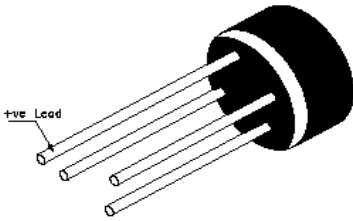


SILICON BRIDGE RECTIFIERS

W005M - W10M

**WOM
PLASTIC PACKAGE**



Features :

- 1). The Plastic Package Carries Underwriters laboratory Flammability Classification 94V-0
- 2). Low Reverse Leakage
- 3). High Forward Surge Current Capability
- 4). High Temperature Soldering Guaranteed :
260°C/10 seconds, 0.375"(9.5mm) Lead Length, 5lbs.(2.3Kg) tension
- 5). Weight : 1.2grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $T_a=25^\circ\text{C}$ Ambient Temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

DESCRIPTION	SYMBOL	W005M	W01M	W02M	W04M	W06M	W08M	W10M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current at $T_A=25^\circ\text{C}$ (Note 2.)	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							A
Rating for Fusing ($t \leq 8.3\text{ms}$)	I^2t	10							A^2s
Maximum Instantaneous Forward Voltage Drop Per Bridge Element at 1A	V_F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A=25^\circ\text{C}$							μA
		$T_A=100^\circ\text{C}$							mA
Typical Junction Capacitance (Note 1.)	C_J	15							pF
Typical Thermal Resistance	$R_{\theta JA}$	40							$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	- 55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150							$^\circ\text{C}$

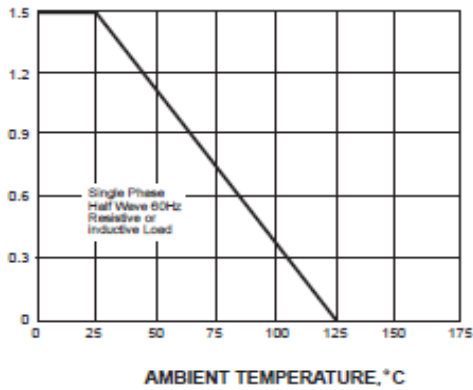
Notes :

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V.
2. Unit mounted on PCB with 0.22 X 0.22" (5.5 X 5.5mm) copper pads, 0.375" (9.5mm) lead length.

TYPICAL CHARACTERISTICS CURVES

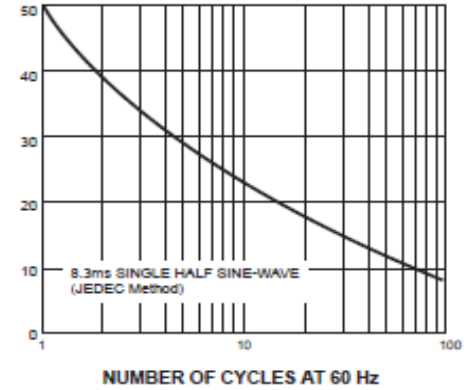
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



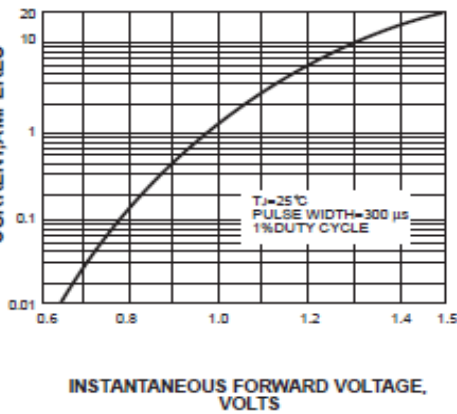
PEAK FORWARD SURGE CURRENT, AMPERES

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



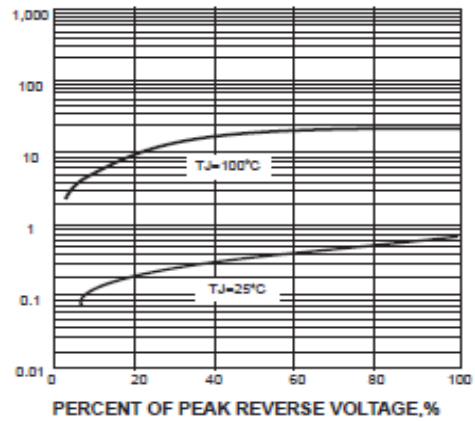
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



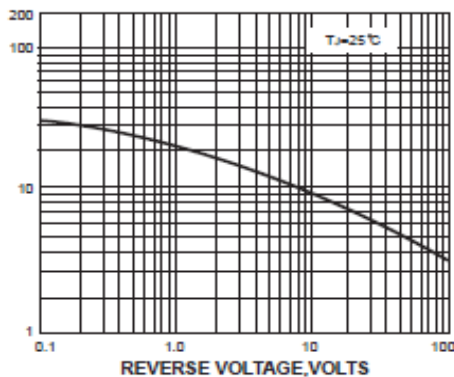
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



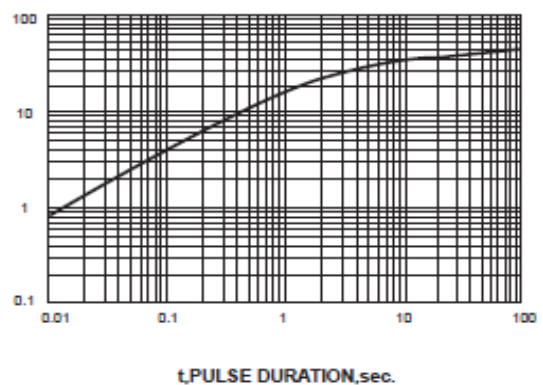
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE

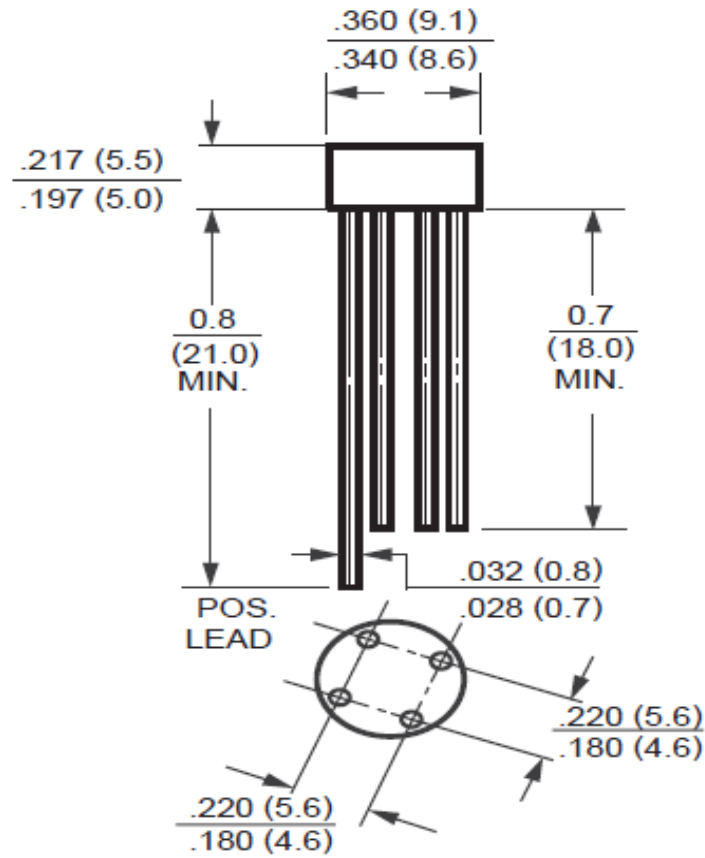


TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



WOM PACKAGE OUTLINE AND DIMENSION



Dimensions in inches and (millimeters)



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