

VI. Bridge Rectifier

1.5A Silicon Bridge Rectifier W-005M~W-10M

(Package: WOM)

<p>FEATURES</p> <ul style="list-style-type: none"> • The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 • Ideal for printed circuit boards • Low reverse leakage • High forward surge current capability • High temperature soldering guaranteed : 235°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3 kg) tension <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case : Molded plastic body • Terminals : Plated leads solderable per MIL-STD-750, Method 2026 • Polarity : Polarity symbols marked on case • Mounting Position : Any • Weight : 0.042 ounce, 1.2 grams 	<p>Case: WOM Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristics	Symbol	W-005M	W-01M	W-02M	W-04M	W-06M	W-08M	W-10M	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward output rectified current at $T_a = 25^\circ\text{C}$ (Note 2)	I_o	1.5							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0							Amps
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	10							A^2s
Maximum instantaneous forward voltage drop per bridge element at 1.5A	V_F	1.0							Volts
Maximum DC reverse current $T_a=25^\circ\text{C}$ at rated DC blocking voltage $T_a=100^\circ\text{C}$	I_R	10							μA
		0.5							mA
Typical junction capacitance (Note 1)	C_j	15							PF
Typical thermal resistance	R_{th-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							$^\circ\text{C}$

Note :

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts

2. Unit mounted on P.C. board with 0.22" x 0.22" (5.5 x 5.5mm) copper pads, 0.375" (9.5mm) lead length

<http://patron-components.com/>

Ratings and Characteristic Curves of W-005M~W-10M

