Single-Phase Silicon Bridge Rectifier – WOM Package

W005M to W10M

MERITEK

FEATURE

• Surge Overload rating: 40 amperes peak

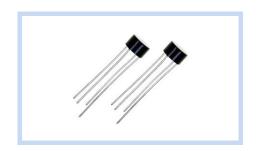
• Forward Current: 1.5A

• Reverse Voltage: 50~1000V

• Terminal: Plated leads solderable per MIL-STD-202, method 208

• Weight: 0.05 ounce, 1.3 gram

UL/cUL safety approved: certification No: E223027



ELECTRICAL CHARACTERISTICS





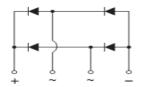
Parameter	Symbols	W005M	W01M	W02M	W04M	W06M	W80W	W10M	Unit
Maximum Recerrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _A =50°C	I _(AV)	1.5					Α		
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	40.0					A		
Maximum Forward Voltage at 1.0A DC and 25°C	V_{F}	1.0					>		
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	5.0 at T _A =20°C, 500 at T _A =100°C					μА		
Typical Junction Capacitance, applied reverse voltage of 4.0 VDC at 1MHz.	CJ	24.0					pF		
Typical Thermal Resistance, form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.	$R_{\theta JA}$	36.0						°C/W	
	$R_{\theta JL}$	13.0					°C/W		
Operating and Storage Temperature Range	T_{J}, T_{stg}	-55 to +150					°C		

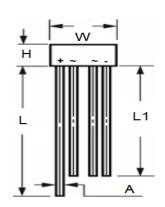
Rating at 25°C, ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

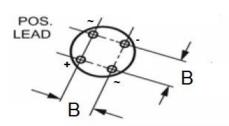
DIMENSIONS

Item	Milimeters					
	Min.	Max.				
W	8.6	9.1				
Н	5.0	5.5				
L	30.5	-				
L1	25.4	-				
Α	0.7	0.8				
В	4.6	5.6				

FUNCTIONAL DIAGRAMN



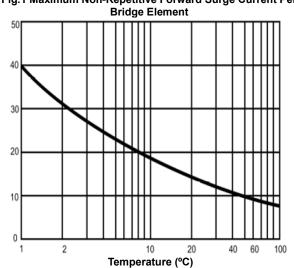




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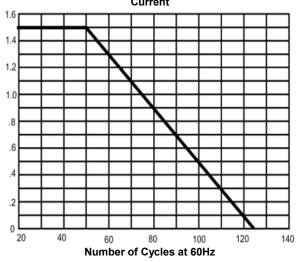
RATINGS AND CHARACTERISTICS CURVES

Fig.1 Maximum Non-Repetitive Forward Surge Current Per

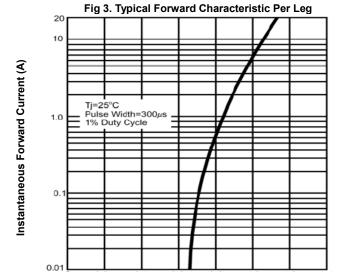


Average Forward Output Current(A)

Fig 2. Maximum Current Derating Curve Output Rectified Current



Peak Forward Surge Current



Forward Voltage

Fig 4. Typical Reverse Characteristics Per Bridge Element

