




**SPECIFICATION SHEET**

<b>SPECIFICATION SHEET NO.</b>	N0626- WOM2W04000L240
<b>DATE</b>	June. 26, 2021
<b>REVISION</b>	A1
<b>DESCRIPTION</b>	<p>Thru Hole Silicon Bridge Rectifier, WOM Series,                  2W04 Type, 4 Pins,                  Reverse Voltage 400V Max. Forward Current 2 A Max.                  Operating Temp. Range -55°C ~+125°C,                  Package in Bulk, 1000pcs/Box                  RoHS/RoHS III compliant</p>
<b>CUSTOMER</b>	
<b>CUSTOMER PART NUMBER</b>	
<b>CROSS REF. PART NUMBER</b>	
<b>ORIGINAL PART NUMBER</b>	MDD 2W04
<b>PART CODE</b>	WOM2W04000L240

<b>VENDOR APPROVE</b>			
Issued/Checked/Approved			
DATE: June 26, 2021			

<b>CUSTOMER APPROVE</b>
DATE:

**THRU HOLE BRIDGE RECTIFER WOM SERIES**

**MAIN FEATURE**



- The plastic package carries Underwrite Laboratory Flammability Classification 94V-0
- Low reverse package
- High forward surge current capability
- High temperature soldering guaranteed: 260°C /10 second, 5 lbs.(2.3kg) tension

**APPLICATION**

- For printed circuit board

**RFQ**

[Request For Quotation](#)

**PART CODE GUIDE**

WOM	2W04000	L	240
1	2	3	4

- 1) **WOM**: Thru Hole Silicon Bridge Rectifier, WOM Series, 4 Pins
- 2) **2W04000**: Type code for original part number 2W04
- 3) **L**: Package code, In Bulk, 500pcs/Box.
- 4) **240**: Specification code for Reverse Voltage 400V Max. Forward Current 2.0A Max

**MORE ITEMS AVAILABLE**

WOM2W00500L205	WOM2W01000L210	WOM2W02000L220	<b>WOM2W04000L240</b>
WOM2W06000L260	WOM2W08000L280	WOM2W10000L20A	

**THRU HOLE BRIDGE RECTIFIER WOM SERIES**

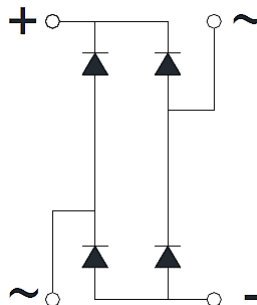
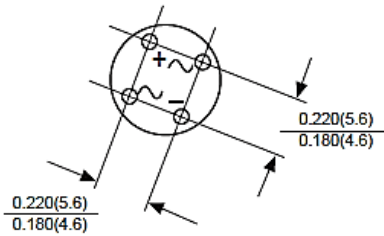
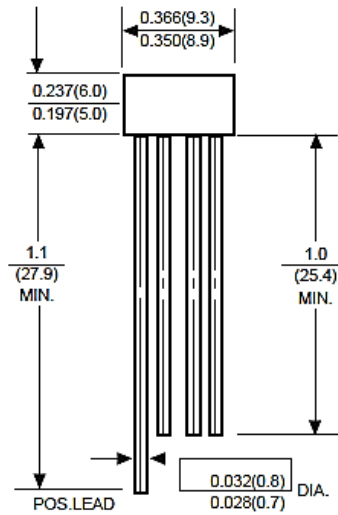
**DIMENSION (Unit: Inch/mm)**

Image for reference



Marking: 2W04

WOM



**THRU HOLE BRIDGE RECTIFIER WOM SERIES**
**MECHANICAL DATA**

Case	Terminals	Polarity	Mounting Position	Weight per piece
JEDEC WOM molded plastic body	Solder plated, Solderable per MIL-STD-750, Method 2026	Polarity symbol marking on body	Any	0.050 Ounce, 1.420 grams

**MAX. RATING & CHARACTERISTICS**

Parameter	SYMBOLS	VALUE			UNITS
		Min.	Typical	Max.	
Repetitive peak reverse voltage	V <sub>RRM</sub>			400	Volts
RMS voltage	V <sub>RMS</sub>			280	Volts
DC blocking voltage	V <sub>DC</sub>			400	Volts
Average forward rectified current at T <sub>c</sub> = 55°C (see Note 2)	I <sub>AV</sub>			2.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>		50		A
Rating for Fusing (t<8.3ms)	I <sup>2</sup> t		10		A <sup>2</sup> S
Forward voltage drop per bridge element at 7.5A	V <sub>F</sub>			1.0	Volts
DC reverse current at rated DC blocking voltage	I <sub>R</sub>			10	μA
				0.5	mA
Thermal capacitance	C <sub>J</sub>		15		pF
Thermal resistance (Note 3)	R <sub>QJA</sub>		40		°C/W
Operating junction temperature range	T <sub>J</sub>	-55		+125	
Storage temperature range	T <sub>STG</sub>	-55		+150	°C

**Note**

1. Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3. Device mounted on 0.22"\*0.22" (5.5\*5.5mm) cooper pads, 0.375"(9.5mm) lead length.
4. The typical data above is for reference only

**THRU HOLE BRIDGE RECTIFIER WOM SERIES**

**RELIABILITY**

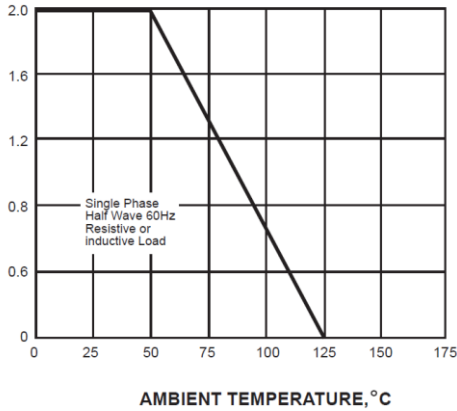
Number	Experiment Items	Experiment Method And Conditions	Reference Documents
1	Solder Resistance Test	Test 260°C± 5°C for 10 ± 2 sec. Immerse body into solder 1/16" ± 1/32"	MIL-STD-750D METHOD-2031.2
2	Solderability Test	230°C ±5°C for 5 sec.	MIL-STD-750D METHOD-2026.1 0
3	Pull Test	1 kg in axial lead direction for 10 sec.	MIL-STD-750D METHOD-2036.4
4	Bend Test	0.5Kg Weight Applied To Each Lead, Bending Arcs 90 °C ± 5 °C For 3 Times	MIL-STD-750D METHOD-2036.4
5	High Temperature Reverse Bias Test	TA=100°C for 1000 Hours at VR=80% Rated VR	MIL-STD-750D METHOD-1038.4
6	Forward Operation Life Test	TA=25°C Rated Average Rectified Current	MIL-STD-750D METHOD-1027.3
7	Intermittent Operation Life Test	On state: 5 min with rated IRMS Power Off state: 5 min with Cool Forced Air. On and off for 1000 cycles.	MIL-STD-750D METHOD-1036.3
8	Pressure Cooker Test	15 PSIG, TA=121°C, 4 hours	MIL-S-19500 APPENOIXC
9	Temperature Cycling Test	-55°C~+125°C; 30 Minutes For Dwelled Time 5 minutes for transferred time. Total: 10 cycles.	MIL-STD-750D METHOD-1051.7
10	Thermal Shock Test	0°C for 5 minutes., 100°C for 5minutes, Total: 10 cycles	MIL-STD-750D METHOD-1056.7
11	Forward Surge Test	8.3ms Single Sale Sine-wave One Surge.	MIL-STD-750D METHOD-4066.4
12	Humidity Test	TA=65°C, RH=98% for 1000 hours.	MIL-STD-750D METHOD-1021.3
13	High Temperature Storage life Test	150°C for 1000 Hours	MIL-STD-750D METHOD-1031.5

**THRU HOLE BRIDGE RECTIFIER WOM SERIES**

**RATINGS AND CHARACTERISTIC CURVES (For Reference Only)**

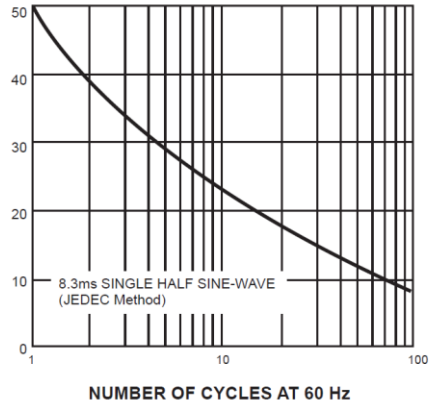
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



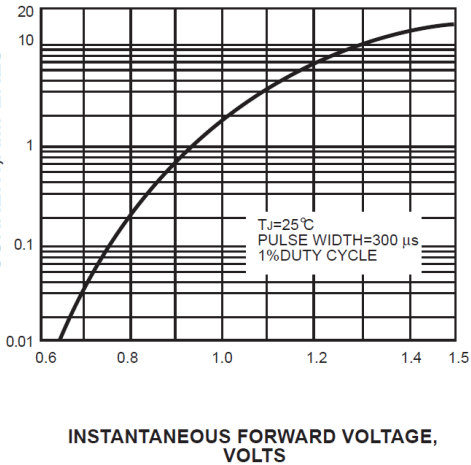
PEAK FORWARD SURGE CURRENT, AMPERES

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



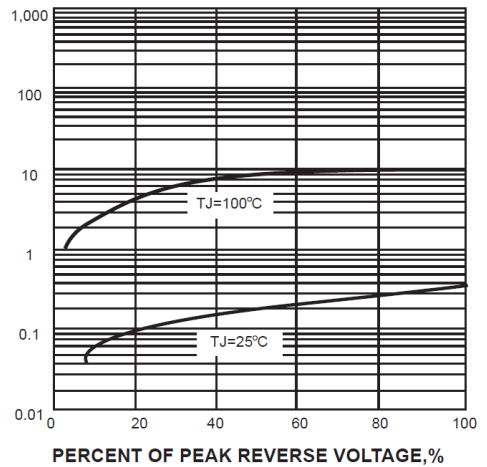
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



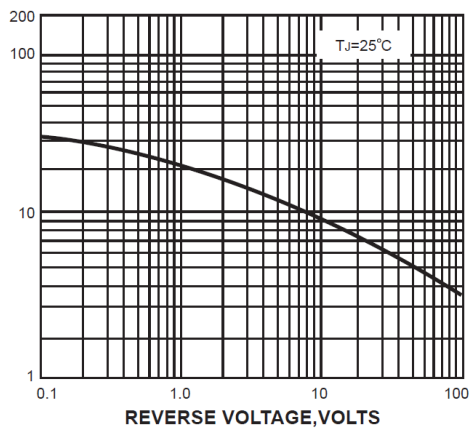
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



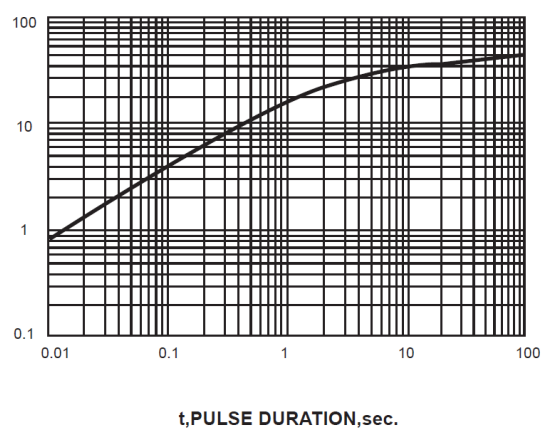
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



**THRU HOLE BRIDGE RECTIFER WOM SERIES**

**PACKAGE**

Part Type	Qty. Per Box (pcs)	G.W per box (kg)	Inner Box L*W*H (mm)	Carton size L*W*H (mm)	Qty. Per Carton (pcs)	G. W (kg)
WOM	1000	1.00	260*190*70	400*270*370	10,000	10.85

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