






THE DATASHEET OF 2W04



SPECIFICATION SHEET

SPECIFICATION SHEET NO.	N0626- WOM2W04000L240
DATE	June. 26, 2021
REVISION	A1
DESCRIPTION	<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>
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	MDD 2W04
PART CODE	WOM2W04000L240

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

CUSTOMER APPROVE
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	WOM2W04000L240
WOM2W06000L260	WOM2W08000L280	WOM2W10000L20A	

THRU HOLE BRIDGE RECTIFIER WOM SERIES

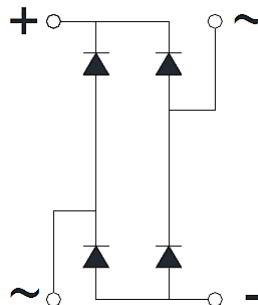
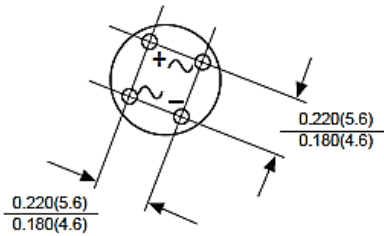
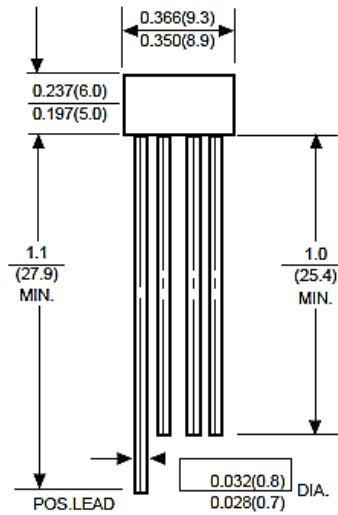
DIMENSION (Unit: Inch/mm)

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 _{RRM}			400	Volts
RMS voltage	V _{RMS}			280	Volts
DC blocking voltage	V _{DC}			400	Volts
Average forward rectified current at T _c = 55°C (see Note 2)	I _{AV}			2.0	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<8.3ms)	I ² t		10		A ² S
Forward voltage drop per bridge element at 7.5A	V _F			1.0	Volts
DC reverse current at rated DC blocking voltage	I _R			10	μA
				0.5	mA
Thermal capacitance	C _J		15		pF
Thermal resistance (Note 3)	R _{QJA}		40		°C/W
Operating junction temperature range	T _J	-55		+125	
Storage temperature range	T _{STG}	-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

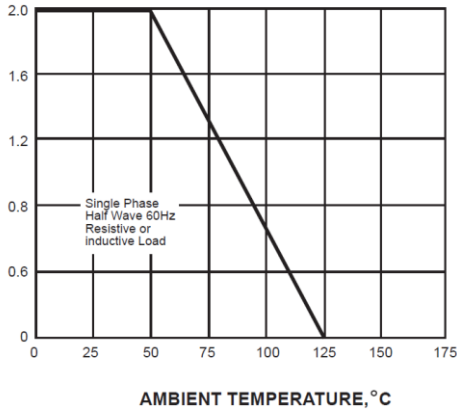
Number	Experiment Items	Experiment Method And Conditions	Reference Documents
1	Solder Resistance Test	Test 260°C± 5°C for 10 ± 2 sec. Immerse body into solder 1/16" ± 1/32"	MIL-STD-750D METHOD-2031.2
2	Solderability Test	230°C ±5°C for 5 sec.	MIL-STD-750D METHOD-2026.1 0
3	Pull Test	1 kg in axial lead 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)

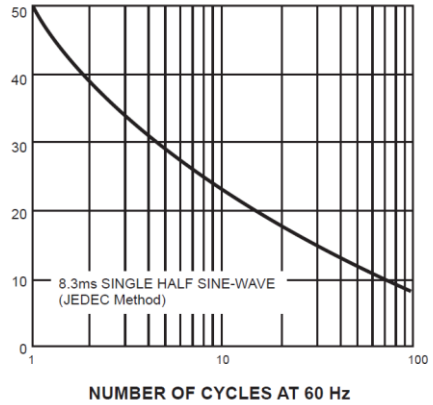
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



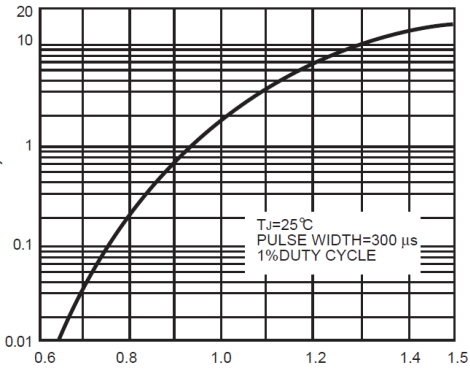
PEAK FORWARD SURGE CURRENT, AMPERES

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



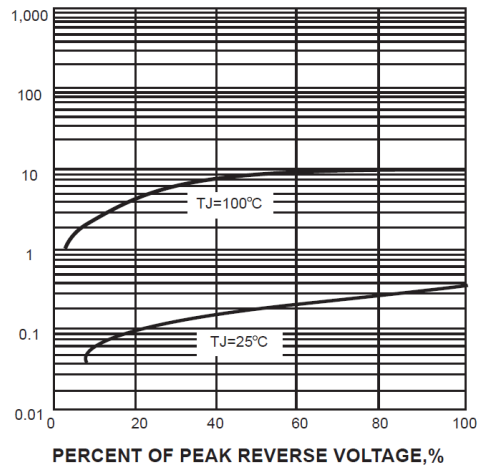
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



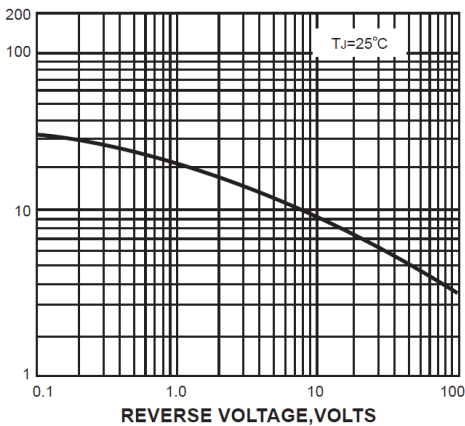
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



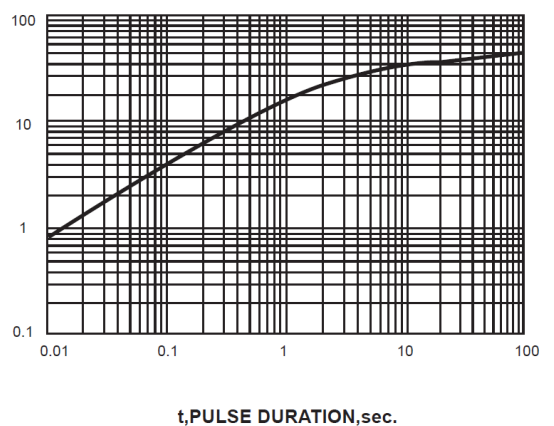
JUNCTION CAPACITANCE, pF

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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