




**SPECIFICATION SHEET**

|                                |   |
|--------------------------------|---|
| <b>SPECIFICATION SHEET NO.</b> | N0626- WOM2W10000L20A   |
| <b>DATE</b>                    | June. 26, 2021  |
| <b>REVISION</b>                | A1  |
| <b>DESCRIPTION</b>             | Thru Hole Silicon Bridge Rectifier, WOM Series,<br>2W10 Type, 4 Pins,<br>Reverse Voltage 1000V Max. Forward Current 2 A Max.<br>Operating Temp. Range -55°C ~+125°C,<br>Package in Bulk, 1000pcs/Box<br>RoHS/RoHS III compliant |
| <b>CUSTOMER</b>                |   |
| <b>CUSTOMER PART NUMBER</b>    |   |
| <b>CROSS REF. PART NUMBER</b>  |   |
| <b>ORIGINAL PART NUMBER</b>    | MDD 2W10  |
| <b>PART CODE</b>               | WOM2W10000L20A  |

|                         |   |  |   |
|-------------------------|---|--|---|
| <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 | 2W10000 | L | 20A |
|-----|---------|---|-----|
| 1   | 2       | 3 | 4   |

- 1) **WOM**: Thru Hole Silicon Bridge Rectifier, WOM Series, 4 Pins
- 2) **2W10000**: Type code for original part number 2W10
- 3) **L**: Package code, In Bulk, 500pcs/Box.
- 4) **20A**: Specification code for Reverse Voltage 1000V Max. Forward Current 2.0A Max

**MORE ITEMS AVAILABLE**

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

**THRU HOLE BRIDGE RECTIFER WOM SERIES**

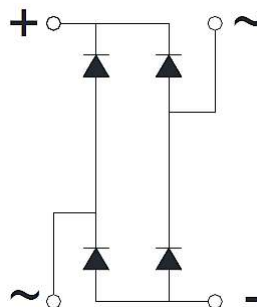
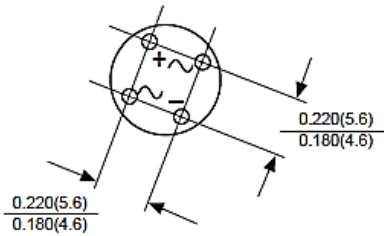
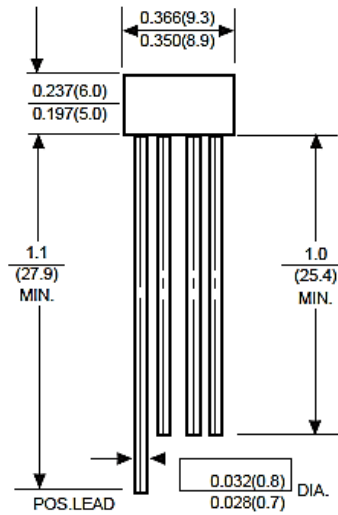
**DIMENSION (Unit: Inch/mm)**

Image for reference



Marking: 2W10

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> |       |         | 1000 | Volts            |
| RMS voltage  | V <sub>RMS</sub> |       |         | 700  | Volts            |
| DC blocking voltage  | V <sub>DC</sub>  |       |         | 1000 | 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 RECTIFER WOM SERIES**

**RELIABILITY**

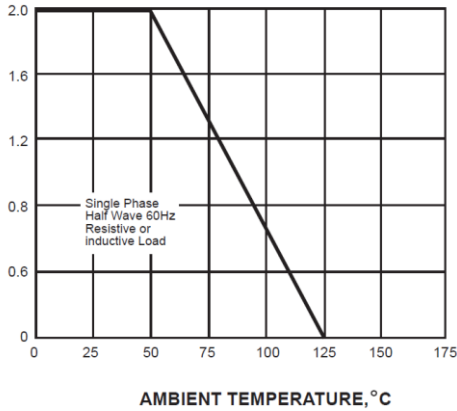
| Number | Experiment Items                   | Experiment Method And Conditions   | Reference Documents             |
|--------|------------------------------------|--|---------------------------------|
| 1      | Solder Resistance Test             | Test 260°C± 5°C for 10 ± 2 sec.<br>Immerse body into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

**THRU HOLE BRIDGE RECTIFIER WOM SERIES**

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

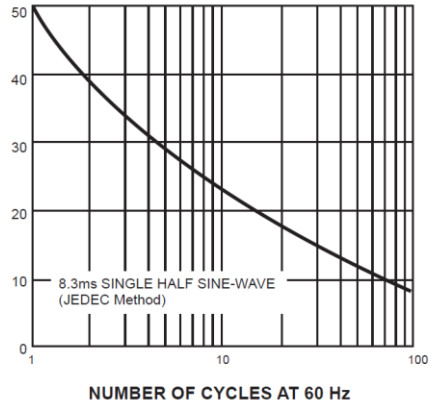
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



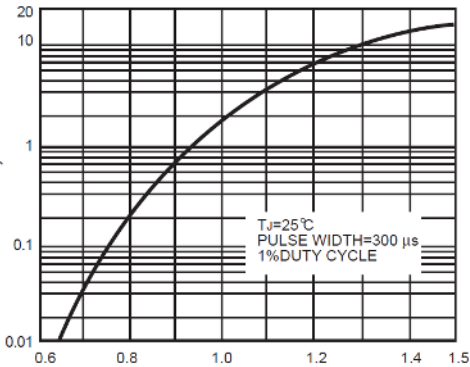
PEAK FORWARD SURGE CURRENT, AMPERES

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



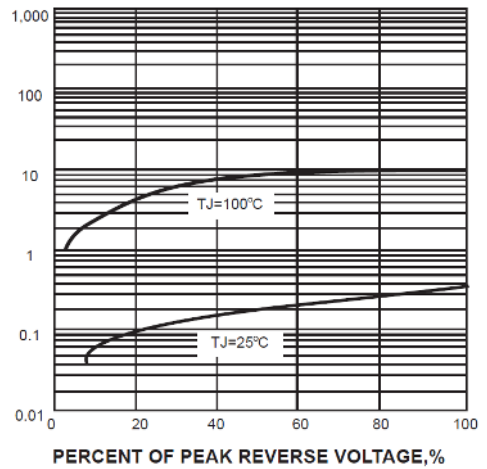
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



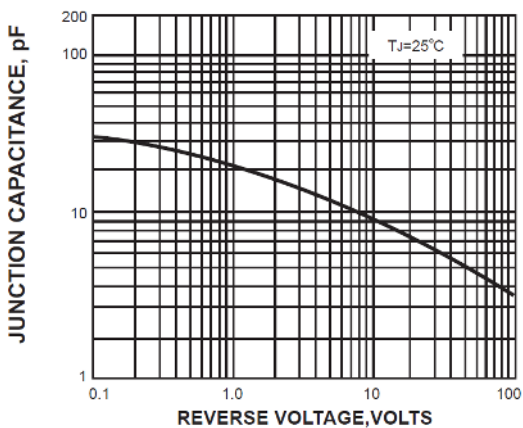
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



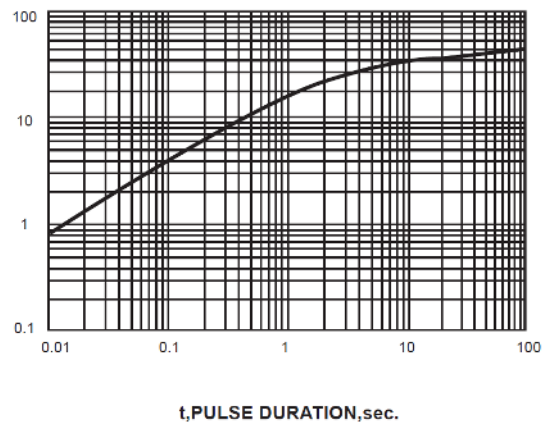
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

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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