Switching Diodes

Features

- · Fast Switching Speed
- Low Forward Voltage
- Fast Reverse Recovery: Maximum of 4ns
- Surface Mount Package Ideally Suited for Automated Insertion
- For General Purpose Switching Applications
- Totally Lead-Free & Fully RoHS Compliant (Notes 1)
- Halogen and Antimony "Green" Device (Note 2)
- PPAP Capable (Note 4)

PINNING

| PIN | DESCRIPTION | |
|-----|-------------|--|
| 1 | Cathode | |
| 2 | Anode | |



Top View

Simplified outline SOD-323W and symbol

Mechanical Date

· Case: SOD-323W

• Case Material: Molded Plastic, "Green" Molding Compound;

UL Flammability Classification Rating 94V-0

Maximum Ratings (TA=+25°C, unless other otherwise specified)

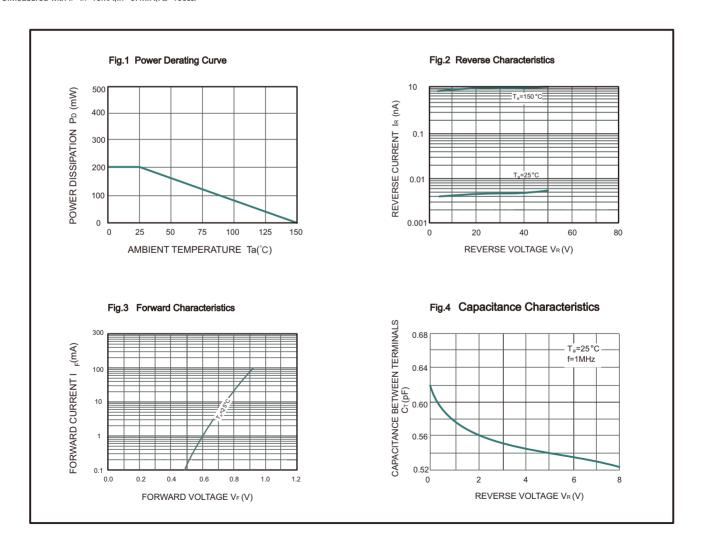
| Parameter | Symbols | MMDL914WB | Units |
|--|--------------------|-----------|-------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 100 | V |
| Reverse Voltage | VR | 100 | V |
| Average Rectified Forward Current | l _{F(AV)} | 200 | mA |
| Non-repetitive Peak Forward Surge Current at 1ms | IFSM | 3 | А |
| Total Power Dissipation | Ptot | 200 | mW |
| Typical Thermal Resistance (4) | Rела | 635 | °C/W |
| Operating and Storage Temperature Range | TJ,T STg | ~55~+150 | °C |

Electrical Characteristics (TA=+25°C, unless other otherwise specified)

| Parameter | | Symbols | MMDL914WB | Units |
|----------------------------------|------------------|--------------------|-----------|-------|
| Reverse Breakdown voltage | at 0.1 m A | V _{(BR)R} | 100 | V |
| Maximum Forward Voltage | at 10 mA | VF | 1.00 | V |
| Barda Barrara Correct | at V=20V Tj=25°C | | 0.025 | - uA |
| Peak Reverse Current | at V=75V Tj=25°C | l _R | 5 | |
| Typical Juncition Capacitance | f=1MHz,VR=0V | Cj | 4 | pF |
| Maximum Reverse Recovery time(5) | | trr | 4 | ns |

Notes

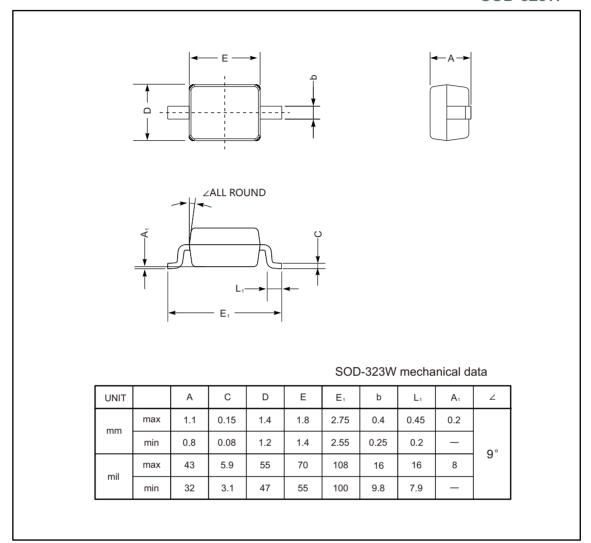
- 1.No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
- 2.Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 3.Automotive products are AEC-Q101 qualified and are PPAP capable. Automotive, AEC-Q10x and standard products are electrically and thermally the same, except where specified.
- 4.P.C.B. mounted with 5*5mm copper pad areas.
- 5.Measured with IF=IR=10mA,Irr=0.1xIR,RL=100 Ω .



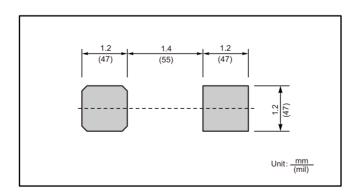
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323W



The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| MMDL914WB | 5D |

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