



MMBD101W/MMBD352W/MMBD354W/MMBD355W

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE 7.0 Volts **POWER** 200 mW

SOT-323 Unit : inch(mm)

FEATURES

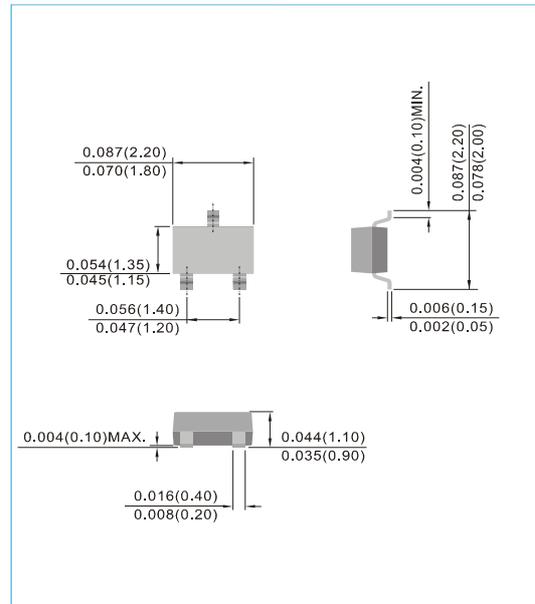
- Low Capacitance, Minimizing Insertion Losses in VHF Applications
- Low V_f : 0.5V (Typ) at $I_f=10mA$
- Extremely Fast Switching Speed
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case : SOT-323, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Approx weight : 0.0002 ounces, 0.005 grams



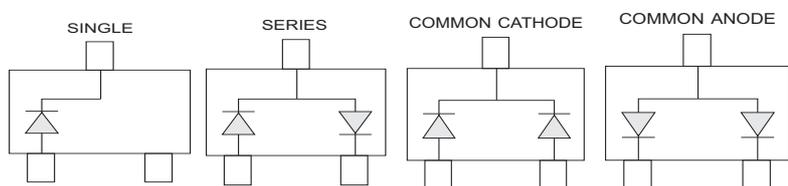
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

| PARAMETER | SYMBOL | MMBD101W | MMBD352W | MMBD354W | MMBD355W | UNITS |
|----------------------------|-----------|------------|----------|----------------|--------------|-------|
| Marking Code | | 101 | 352 | 354 | 355 | |
| Reverse Voltage | V_R | 7 | | | | V |
| Forward Power Dissipation | P_F | 200 | | | | mW |
| Junction Temperature Range | T_J | -55 to 125 | | | | °C |
| Storage Temperature Range | T_{STG} | -55 to 150 | | | | °C |
| Circuit Figure | | SINGLE | SERIES | COMMON CATHODE | COMMON ANODE | |

THERMAL CHARACTERISTICS (TA=25°C unless otherwise noted)

| PARAMETER | SYMBOL | VALUE | UNITS |
|---|-----------------|-------|-------|
| Thermal Resistance , Junction to Ambient ⁽¹⁾ | $R_{\theta JA}$ | 500 | °C/W |

Note 1. FR-5 Board = 1.0 x 0.75 x 0.062 in



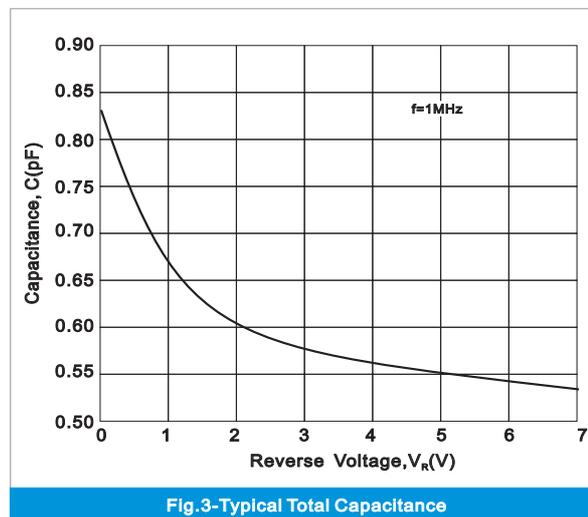
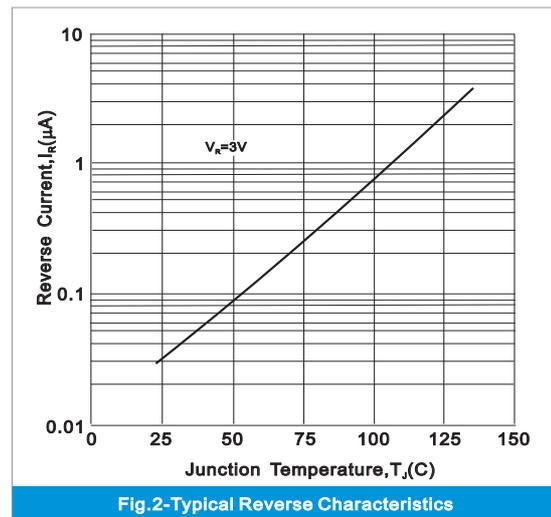
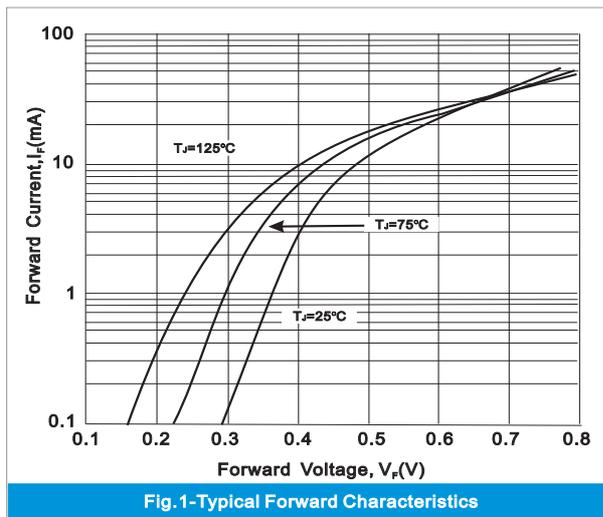


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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|---------------------------|-------------------|-------------------------------|------|------|------|-------|
| Reverse Breakdown Voltage | V _(BR) | I _R =10μA | 7.0 | 10 | - | V |
| Reverse Leakage Current | I _R | V _R =3.0V | - | - | 0.25 | μA |
| Forward Voltage | V _F | I _F =10mA | - | 0.5 | 0.6 | V |
| Total Capacitance | C _T | f=1.0MHz ; V _R =0V | - | 0.88 | 1.0 | pF |

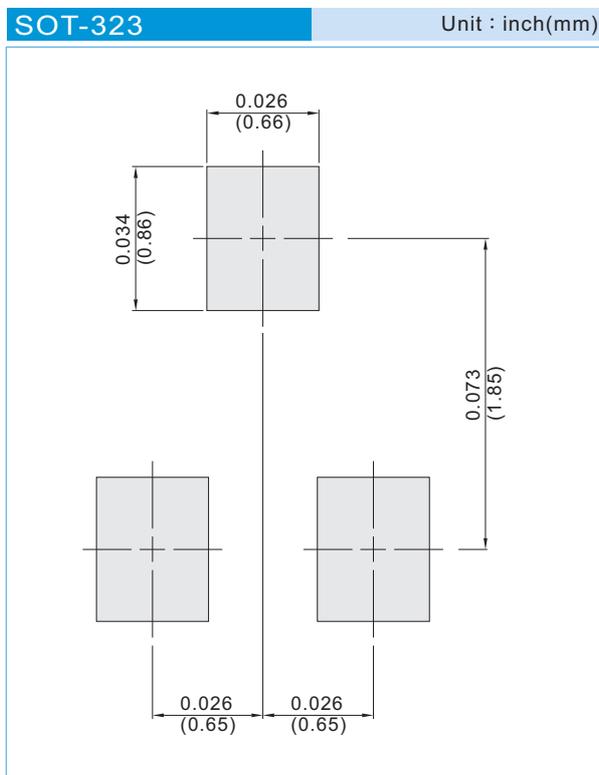
ELECTRICAL CHARACTERISTICS CURVE





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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|------------------------|----------------------|-------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| T/B | A | N/A | 0 | HF | 0 | serial number |
| T/R | R | 7" | 1 | RoHS | 1 | serial number |
| B/P | B | 13" | 2 | | | |
| T/P | T | 26mm | X | | | |
| TRR | S | 52mm | Y | | | |
| TRL | L | PBCU | U | | | |
| FORMING | F | PBCD | D | | | |

Part No_packing code_Version

MMBD101W_R1_00001

MMBD101W_R2_00001