



MMBD330WS

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE 30 Volt **POWER** 200mWatt

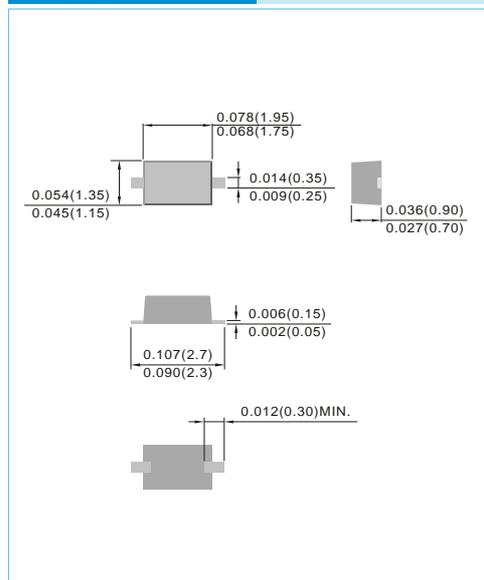
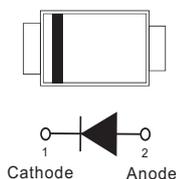
SOD-323 Unit : inch(mm)

FEATURES

- Low Capacitance : 1.5 pF (Max) at $V_R=15V$
- Very Low V_F : 0.36V (Typ) at $I_F = 1mA$
- Extremely Fast Switching Speed
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Weight: 0.00014 ounces, 0.0041 grams



MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

| Parameter | Symbol | VALUE | Units |
|--|-----------------|-------------|---------------|
| Marking Code | - | 330 | - |
| Reverse Voltage | V_R | 30 | V |
| Peak Reverse Voltage | V_{RRM} | 30 | V |
| Maximum Forward Current | I_F | 0.2 | A |
| Power Dissipation (1) | P_{tot} | 200 | mW |
| Thermal Resistance , Junction to Ambient (1) | $R_{\theta JA}$ | 635 | $^{\circ}C/W$ |
| Junction Temperature Range | T_J | -55 to +125 | $^{\circ}C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | $^{\circ}C$ |

NOTE:

1. FR-5 Board = 1.0X0.75X0.062 in.



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ELECTRICAL CHARACTERISTICS ($T_J=25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Units |
|---------------------------|------------|-----------------------------------|------|------|------|---------------|
| Reverse Breakdown Voltage | $V_{(BR)}$ | $I_R=10\mu\text{A}$ | 30 | - | - | V |
| Reverse Leakage Current | I_R | $V_R=25\text{V}$ | - | - | 0.2 | μA |
| Forward Voltage | V_F | $I_F=1.0\text{mA}$ | - | - | 0.45 | V |
| Forward Voltage | V_F | $I_F=10\text{mA}$ | - | - | 0.6 | V |
| Total Capacitance | C_J | $V_R=15\text{V}, f=1.0\text{MHz}$ | - | - | 1.5 | pF |

ELECTRICAL CHARACTERISTICS CURVES

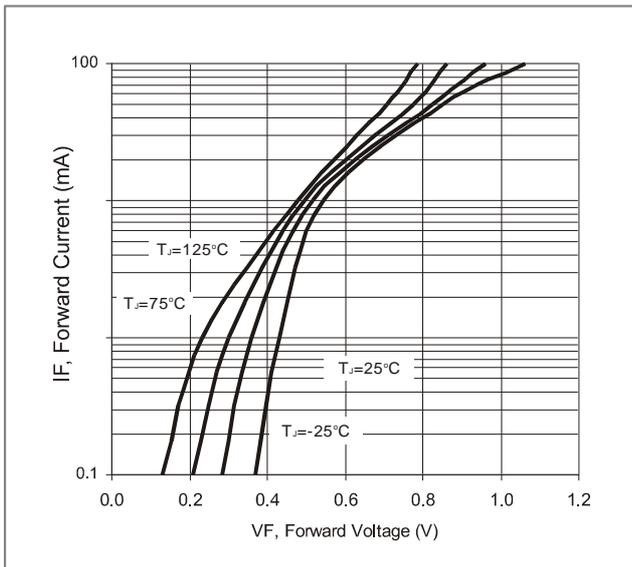


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

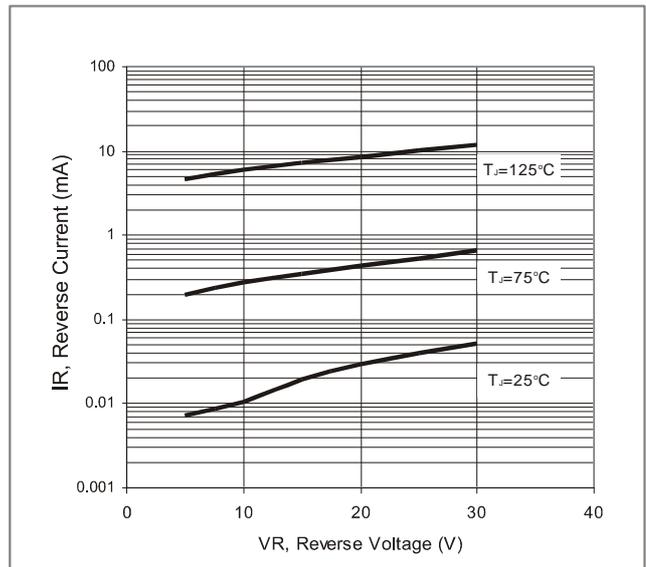


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

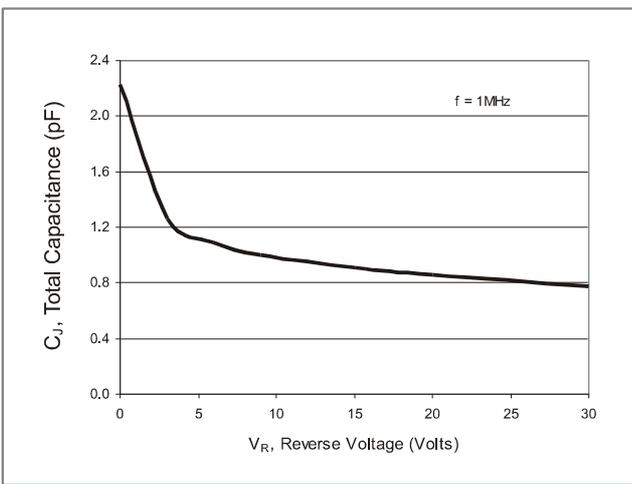


FIG. 3 TYPICAL TOTAL CAPACITANCE

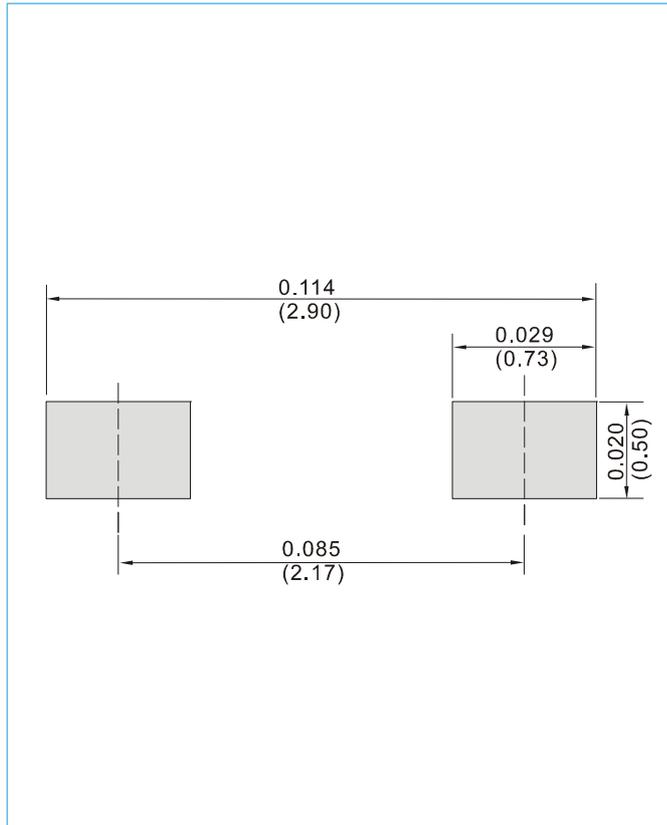


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MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel



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Part No_packing code_Version

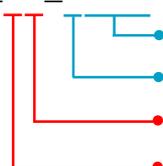
MMBD330WS_R1_00001

MMBD330WS_R2_00001

For example :

RB500V-40_R2_00001

Part No.



Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

| 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 |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |



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