



MMBD4148TS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200mWatts

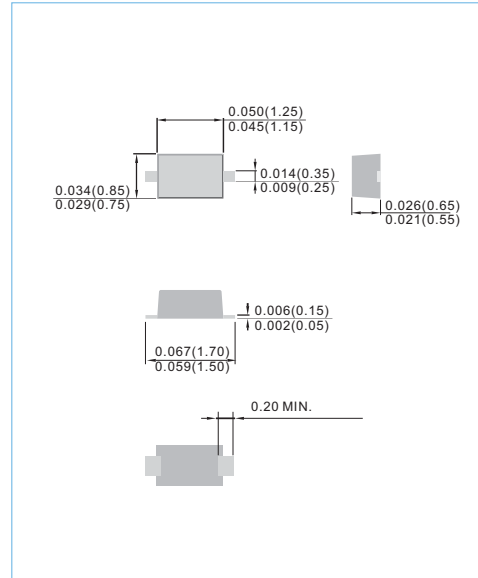
SOD-523 Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOD-523 plastic case.
 Terminals : Solderable per MIL-STD-750, Method 2026
 Standard packaging: 8mm tape
 Approx. Weight: 0.0001 ounces, 0.0014 grams
 Marking Code: A2



ABSOLUTE RATINGS (T_A=25°C, unless otherwise noted)

| PARAMETER | SYMBOL | MMBD4148TS | UNITS |
|--|--------------------|------------|-------|
| Reverse Voltage | V _R | 75 | V |
| Peak Reverse Voltage | V _{RRM} | 100 | V |
| RMS Voltage | V _{RMS} | 50 | V |
| Maximum DC Blocking Voltage | V _{DC} | 75 | V |
| Maximum Average Forward Current at T _A =25 °C | I _{F(AV)} | 150 | mA |
| Peak Forward Surge Current, 1.0 μs | I _{FSM} | 4 | A |
| Power Dissipation Derate Above 25 °C | P _{TOT} | 200 | mW |
| Junction Temperature | T _J | 125 | °C |
| Storage Temperature Range | T _{STG} | -40 to 125 | °C |

THERMAL CHARACTERISTICS

| PARAMETER | SYMBOL | MMBD4148T S | UNITS |
|----------------------------|------------------|-------------|--------|
| Typical Thermal Resistance | R _{θJA} | 635 | °C / W |

NOTE:

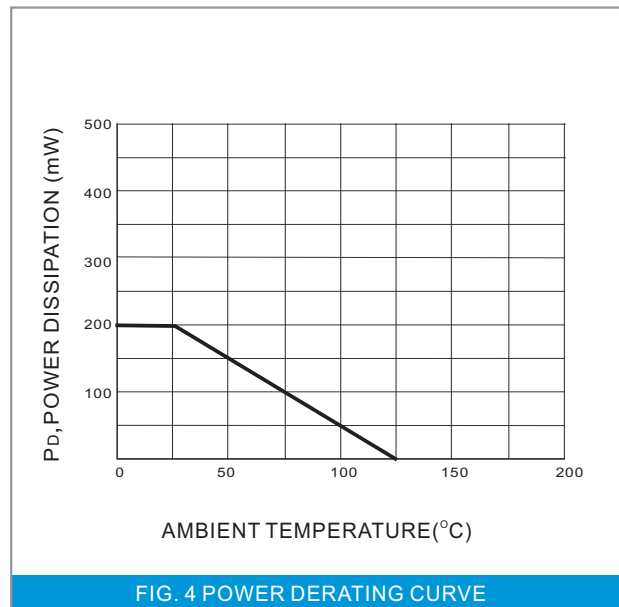
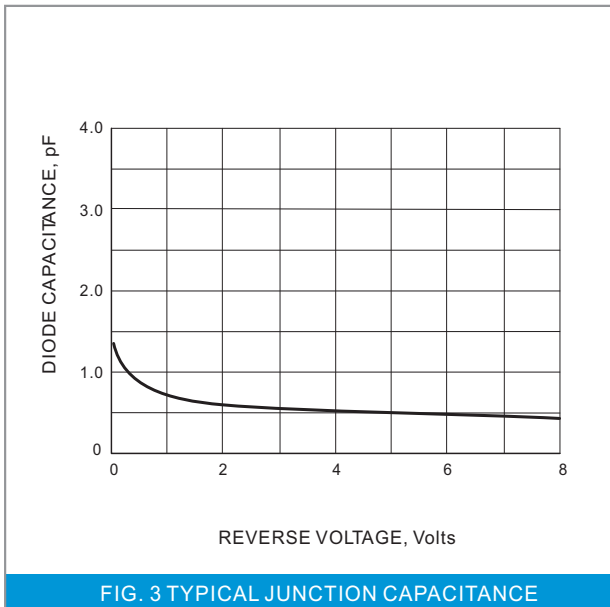
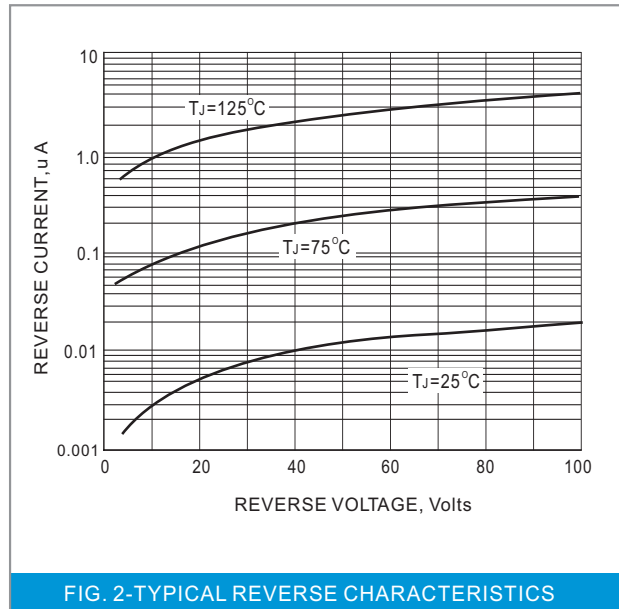
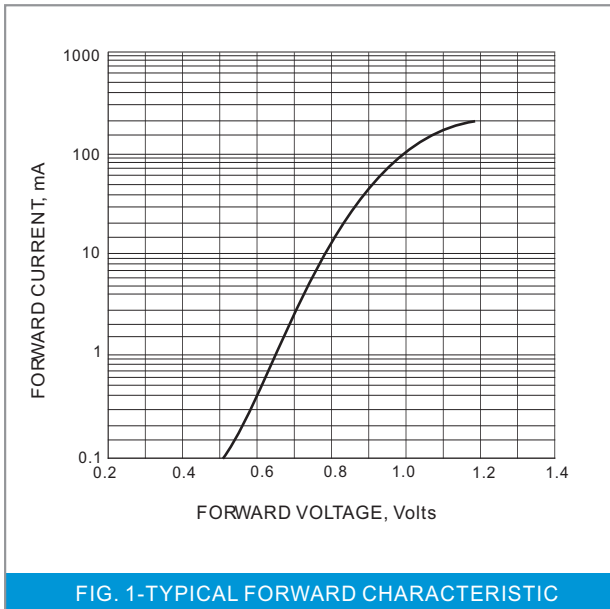
1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω



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

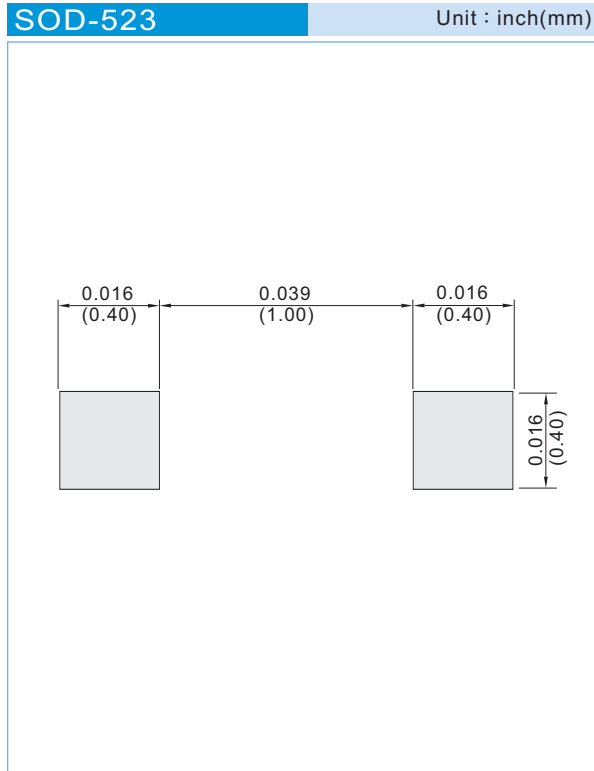
| PARAMETER | SYMBOL | TEST CONDITIONS | VALUE | UNITS |
|-------------------------------|----------|--|--------------------------------|---------------|
| Maximum Forward Voltage | V_F | $I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$ | 0.715 0.855 1.00 1.25 | V |
| Reverse Leakage Current | I_R | $V_R=20\text{V}$ $V_R=75\text{V}$ | 0.025 2.5 | μA |
| Maximum Total Capacitance | C_T | $V_R=0\text{V}$, $f=1\text{MHz}$ | 1.5 | pF |
| Maximum Reverse Recovery Time | t_{rr} | $I_F=10\text{mA}$, $I_R=1\text{mA}$ $V_R=6\text{V}$, $R_L=100\Omega$ | 4 | ns |





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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



MMBD4148TS

Part No_packing code_Version

MMBD4148TS_R1_00001

MMBD4148TS_R2_00001

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 |
| 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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