



MMBD4148SE

High Conductance Ultra Fast Diode 350mW

Features

- Surface Mount Package Ideally Suited for Automatic Insertion
- 150°C Junction Temperature
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: D4
- Weight: 0.008 grams (approx.)

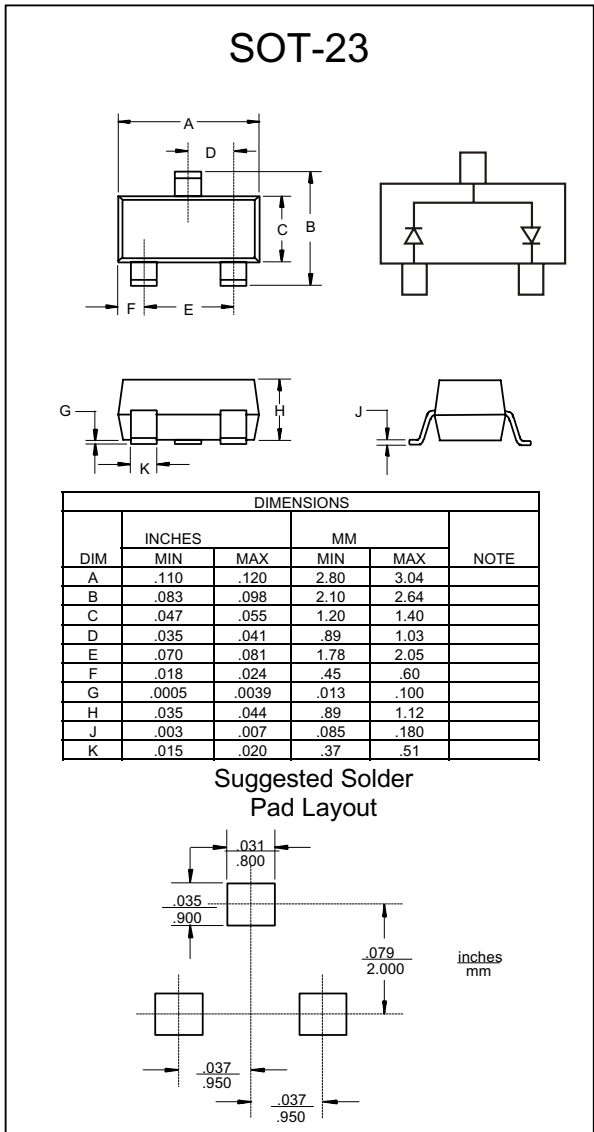
Maximum Ratings @ 25°C Unless Otherwise Specified

| Characteristic | Symbol | Value | Unit |
|---|-----------------------------------|-------------|------|
| Working Inverse Voltage | V _{IV} | 75 | V |
| DC Forward Current | I _{FM} | 600 | mA |
| Average Rectified Current | I _{F(AV)} | 200 | mA |
| Recurrent Peak Forward Current | I _{FRM} | 700 | mA |
| Peak Forward Surge Current@ t=1.0s @ t=1.0us | I _{FSM} | 1.0 2.0 | A |
| Power Dissipation | P _d | 350 | mW |
| Thermal Resistance | R | 357 | °C/W |
| Operation & Storage Temp. Range | T _J , T _{STG} | -55 to +150 | °C |

Note: 1) These ratings are based on a max. junction temperature of 150 degrees C
 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operation

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Charateristic | Symbol | Min | Max | Unit | Test Cond. |
|---------------------------------------|-----------------|-----|-----------------|----------------|---|
| Breakdown Voltage | V _R | 75 | | V | I _R =5uA |
| Maximum Instantaneous Forward Voltage | V _F | | 1.0 | V | I _F =10mA |
| Maximum Instantaneous Reverse Current | I _R | | 25 50 5.0 | nA uA uA | V _R =20V V _R =20V T _A =150°C V _R =75V |
| Junction Capacitance | C _J | | 4 | pF | V _R =0V, f=1.0MHz |
| Reverse Recovery Time | t _{rr} | | 4 | ns | I _F =10mA, V _R =6.0V, I _{RR} =1.0mA, R _L =100 OHM |





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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

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