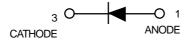


Schottky Barrier Diodes

Designed primarily for UHF mixer applications but suitable also for use in detector and ultra-fast switching circuits.Supplied in an inexpensive plastic package for low-cost,high-volume consumer requirements.Also available in Surface Mount package.

- Low Noise Figure—6.0dB Typ@1.0GHz
- Very Low Capacitance—Less Than 1.0pF@zero Volts
- High Forward Conductance—0.5volts(typ)@I_F=10mA





SILICON SCHOTTKY BARRIER DIODES



CASE 318-08, STYLE 6 SOT- 23 (TO-236AB)

MAXIMUM RATINGS

| | | MBD101 | MMBD101LT1 | |
|---------------------------|------------------|-------------|------------|-------|
| Rating | symbol | , | unit | |
| Reverse Voltage | VR | 7.0 | | Volts |
| Forward Power Dissipation | p⊧ | | | |
| @TA=25 °C | | 280 | 225 | mW |
| Derate above 25 °C | | 2.2 | 1.8 | mW/°C |
| Junction Temperature | TJ | +150 | | °C |
| Storage Temperature Range | T _{stg} | -55 to +150 | | °C |
| DEVICE MARKING | | | | |

MMBD101LT1=4M

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

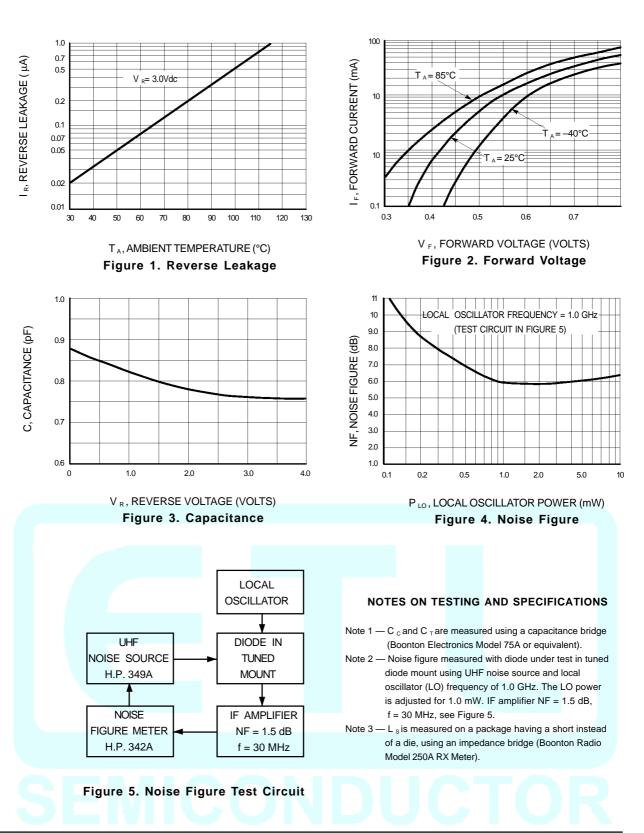
| Characteristic | Symbol | Min | Тур | Max | Unit |
|--------------------------------------|--------------------|-----|------|------|-------|
| Reverse Breakdown Voltage | V _{(BR)R} | 7.0 | 10 | — | Volts |
| (I _R = 10µAdc) | | | | | |
| Diode Capacitance | CT | — | 0.88 | 1.0 | pF |
| (V _R = 0,f =1.0MHz,Note1) | | | | | |
| Forward Voltage(1) | VF | — | 0.5 | 0.6 | Volts |
| (I _F = 10mAdc) | | | | | |
| Reverse Leakage | R | _ | 0.02 | 0.25 | μAdc |
| (V _R = 3.0Vdc) | | | | | |

NOTE: MMBD101LT1 is also available in bulk packaging.Use MMBD101L as the device title to order this device in bulk.





MMBD101LT1



(T $_A$ = 25°C unless noted)