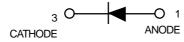


## **Schottky Barrier Diodes**

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<sub>F</sub>=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 <sub>stg</sub>	-55 to +150		°C
DEVICE MARKING				

MMBD101LT1=4M

ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25 °C unless otherwise noted)

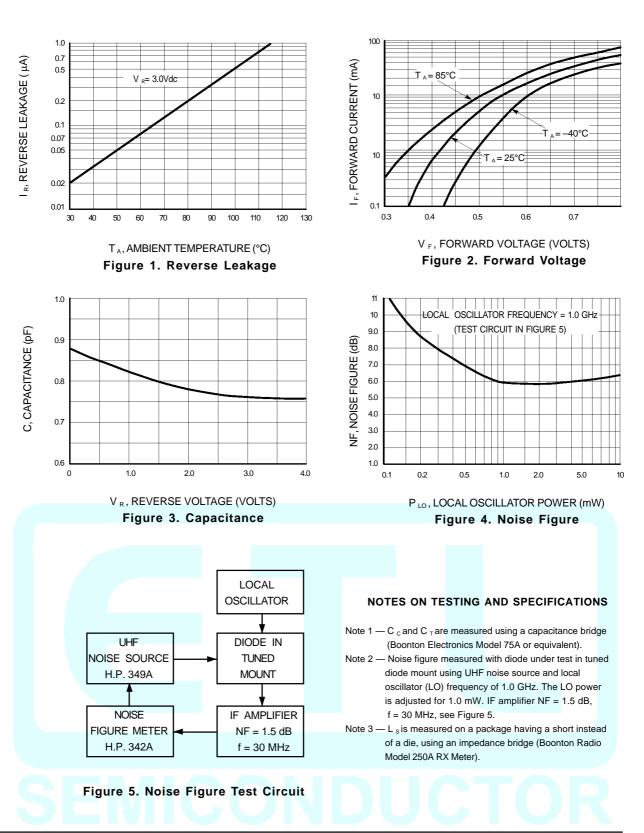
Characteristic	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	7.0	10	—	Volts
(I <sub>R</sub> = 10µAdc)					
Diode Capacitance	CT	—	0.88	1.0	pF
(V <sub>R</sub> = 0,f =1.0MHz,Note1)					
Forward Voltage(1)	VF	—	0.5	0.6	Volts
(I <sub>F</sub> = 10mAdc)					
Reverse Leakage	R	_	0.02	0.25	μAdc
(V <sub>R</sub> = 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)