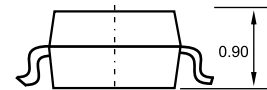
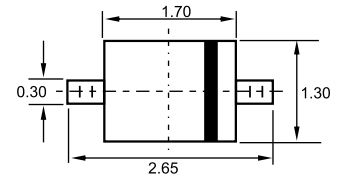


### SOD-323



## Features

- Low noise figure—6.0dB Typ. @1.0GHz.
- Very Low Capacitance—less than 1.0pF @0V.
- Ultra-small surface mount package.
- PN junction guard ring for transient and ESD protection.

## Applications

- For high-efficiency UHF and VHF detector applications.

Dimensions in inches and (millimeters)

## Ordering Information

Type No.	Marking	Package Code
MMDL101	4M	SOD-323

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
DC reverse voltage	$V_R$	7.0	V
Power Dissipation	$P_d$	200	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	635	°C/W
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-65-150	°C

## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	7.0	10		V
Forward voltage	$V_F$	$I_F=10mA$		0.5	0.6	V
Reverse leakage current	$I_R$	$V_R=3.0V$		20	250	nA
Noise Figure	NF	$f=1.0GHz$		6.0		dB
Total capacitance	$C_T$	$V_R=0V, f=1.0MHz$		0.88	1.0	pF



TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified

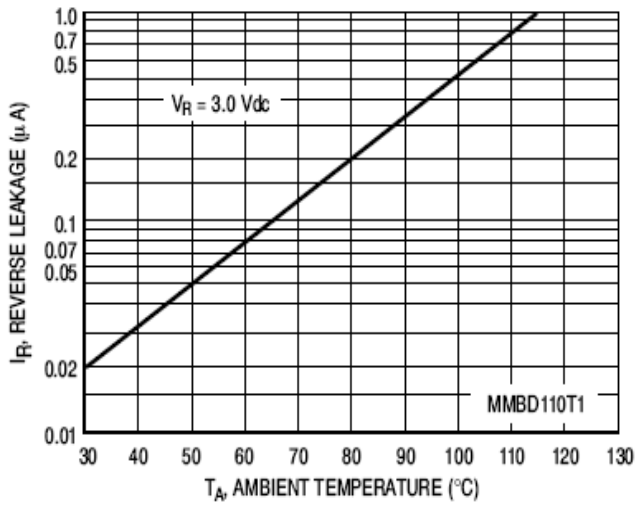


Figure 1. Reverse Leakage

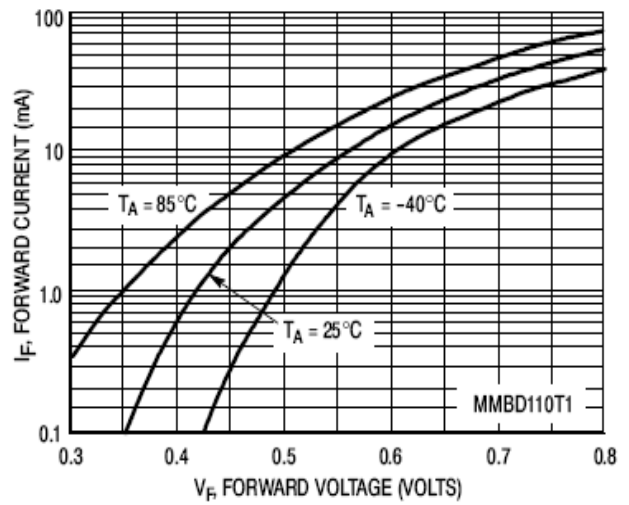


Figure 2. Forward Voltage

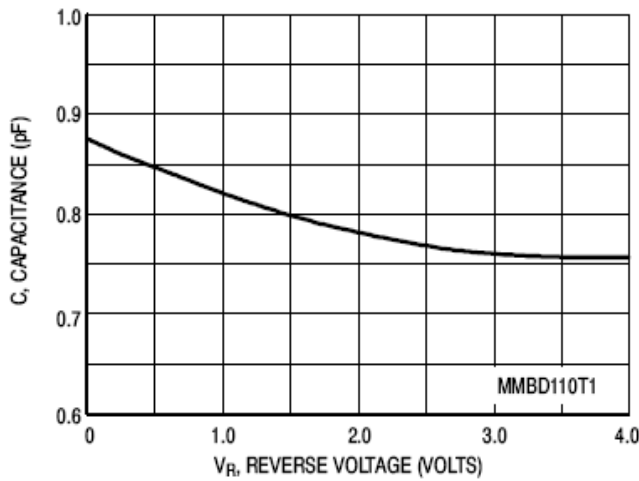


Figure 3. Capacitance

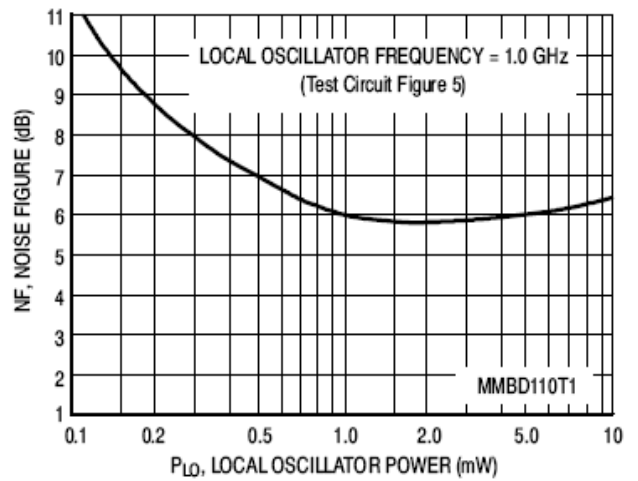


Figure 4. Noise Figure

Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOD-323	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220