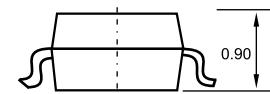
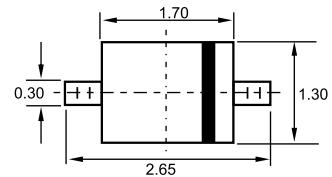

**SOD-323**


Dimensions in inches and (millimeters)

## Features

- ✧ Low reverse leakage— $I_R=13\text{nA}(\text{Typ})$ .
- ✧ Very Low Capacitance—less than  $1.5\text{pF}$  @  $15\text{V}$ .
- ✧ Extremely Low minority carrier lifetime— $15\text{ps}(\text{Typ})$ .
- ✧ Pb-Free package is available.

## Applications

- ✧ For high-efficiency UHF and VHF detector applications.

## Ordering Information

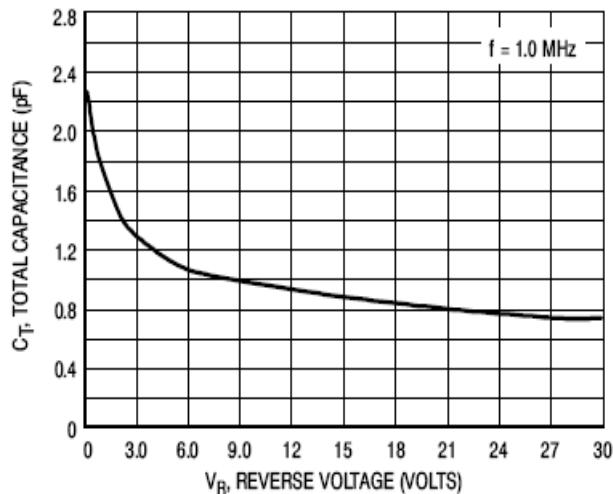
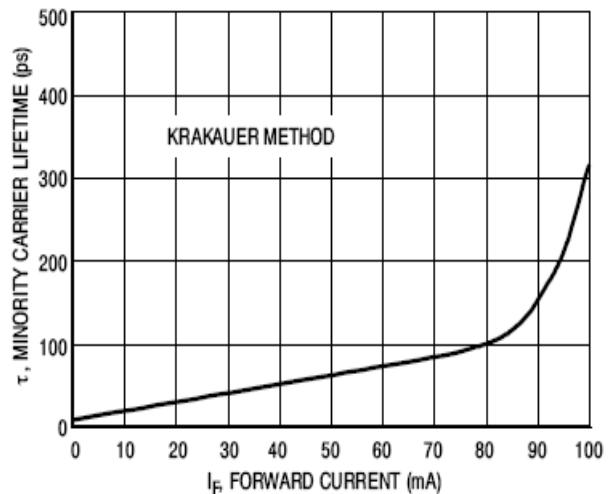
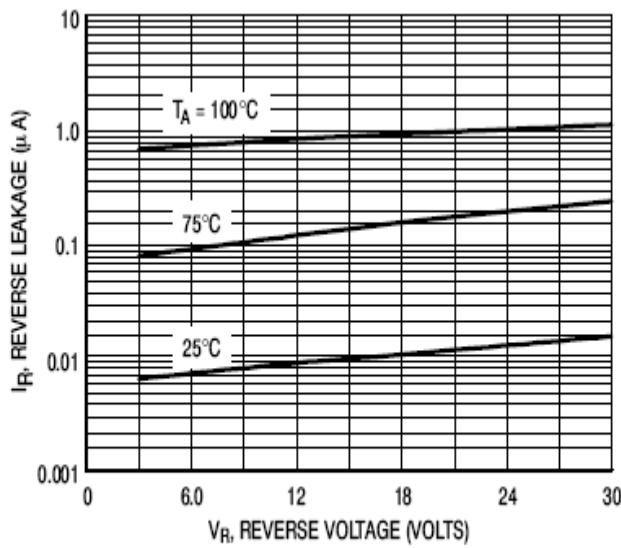
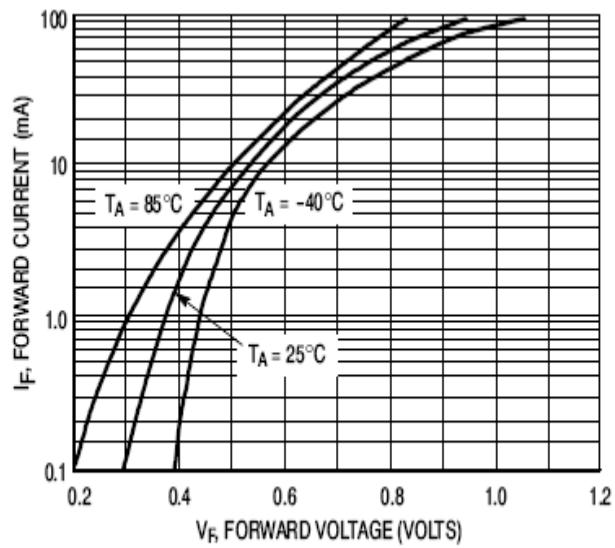
Type No.	Marking	Package Code
MMDL301	4T	SOD-323

## MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
DC reverse voltage	$V_R$	30	V
Power Dissipation	$P_d$	200	mW
Thermal resistance, junction to ambient air	$R_{\theta jA}$	635	$^\circ\text{C}/\text{W}$
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55-150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	30			V
Forward voltage	$V_F$	$I_F=1.0\text{mA}$ $I_F=10\text{mA}$		0.38 0.52	0.45 0.6	V
Reverse leakage current	$I_R$	$V_R=25\text{V}$		13	200	nA
Total capacitance	$C_T$	$V_R=15\text{V}, f=1.0\text{MHz}$		0.9	1.5	pF

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

**Figure 1. Total Capacitance**

**Figure 2. Minority Carrier Lifetime**

**Figure 3. Reverse Leakage**

**Figure 4. Forward Voltage**