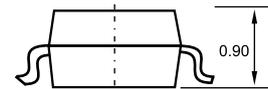
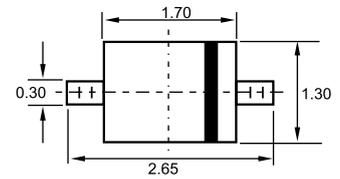


SOD-323



Features

- ✧ Low reverse leakage— $I_R=200\text{nA}(\text{Max.})$.
- ✧ Very Low Capacitance— $1.0\text{pF} @20\text{V}$.
- ✧ Extremely Low minority carrier lifetime.
- ✧ High reverse leakage— $70\text{V}(\text{min.})$

Applications

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

Dimensions in inches and (millimeters)

Ordering Information

Type No.	Marking	Package Code
MMDL770	5H	SOD-323

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

Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	70	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	$V_{(BR)R}$	$I_R=10\mu\text{A}$	70			V
Forward voltage	V_F	$I_F=10\text{mA}$		0.7	1.0	V
Reverse leakage current	I_R	$V_R=35\text{V}$		9.0	200	nA
Total capacitance	C_T	$V_R=20\text{V}, f=1.0\text{MHz}$		0.5	1.0	pF

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

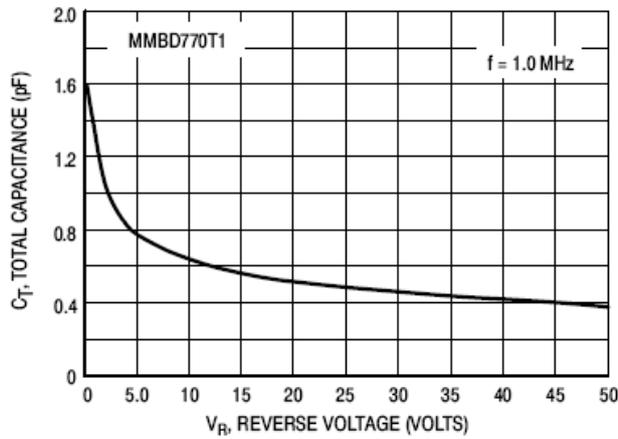


Figure 1. Total Capacitance

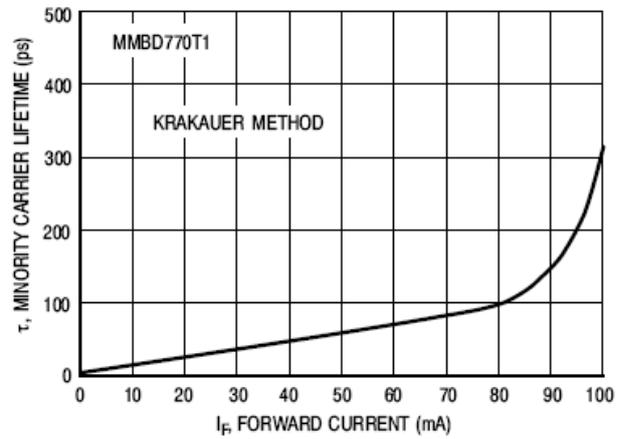


Figure 2. Minority Carrier Lifetime

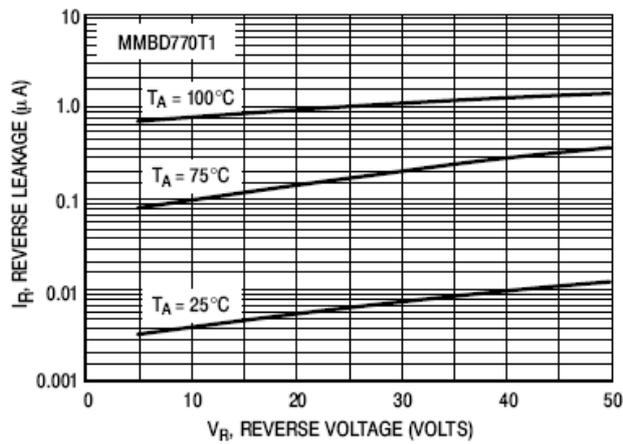


Figure 3. Reverse Leakage

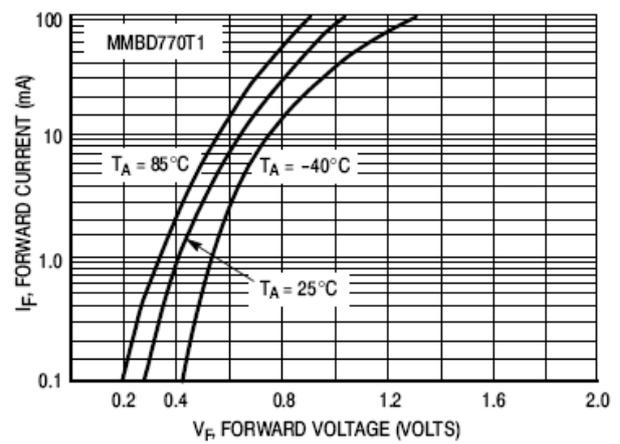


Figure 4. Forward Voltage