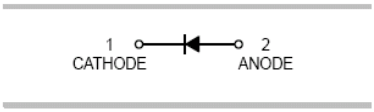
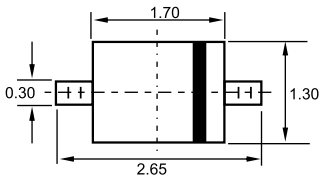
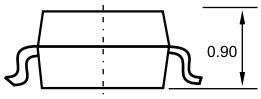
MMDL707

Schottky Barrier Diode



SOD-323





Dimensions in inches and (millimeters)

Features

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

Applications

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

Ordering Information

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

MAXIMUM RATING @ Ta=25℃ 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	℃/W
Junction temperature	T_j	150	℃
Storage temperature range	T_{stg}	-55-150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	I_R=10μA	70			V
Forward voltage	V_F	I_F=10mA		0.7	1.0	V
Reverse leakage current	I_R	V_R=35V		9.0	200	nA
Total capacitance	C_T	V_R=20V,f=1.0MHz		0.5	1.0	pF

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

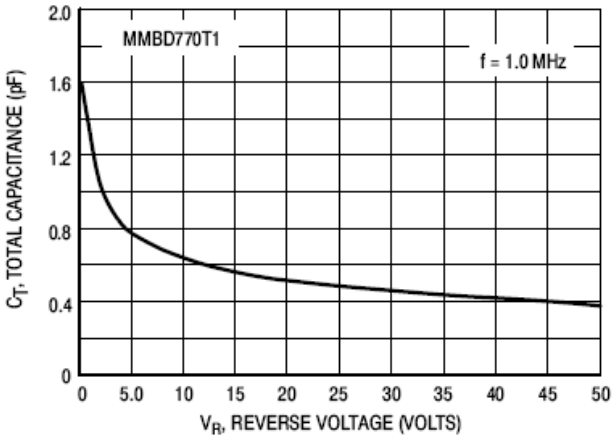


Figure 1. Total Capacitance

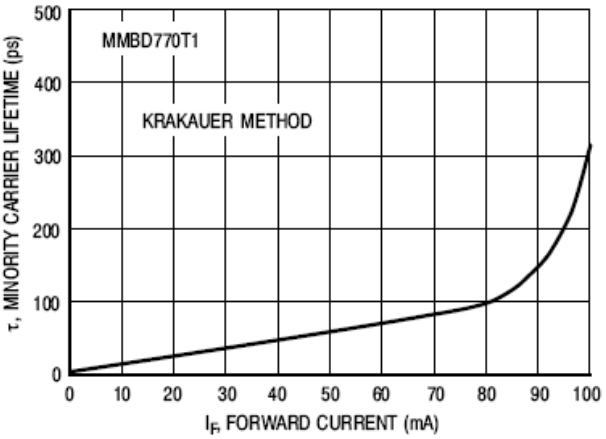


Figure 2. Minority Carrier Lifetime

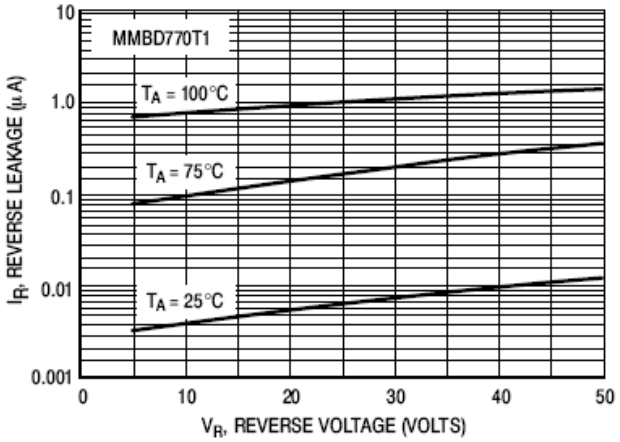


Figure 3. Reverse Leakage

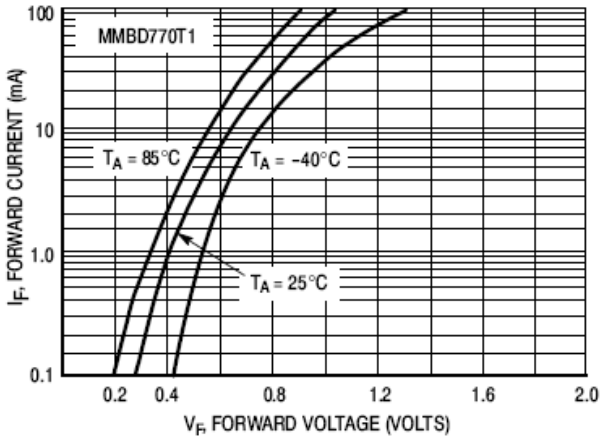


Figure 4. Forward Voltage