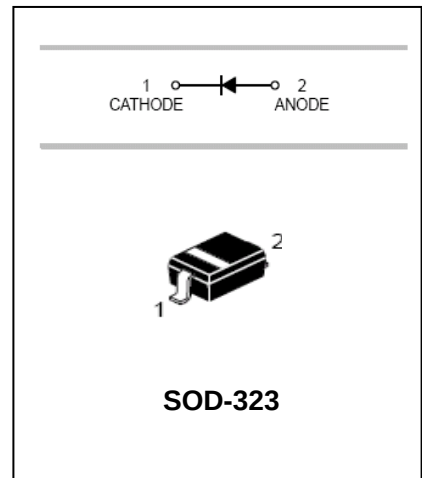


Schottky Barrier Diode

MMDL770

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.

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

Schottky Barrier Diode

MMDL770

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

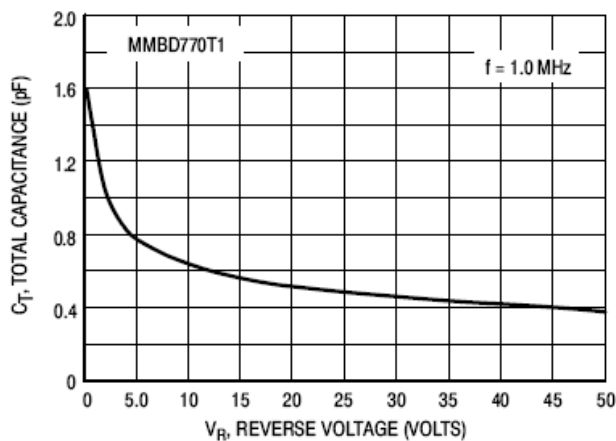


Figure 1. Total Capacitance

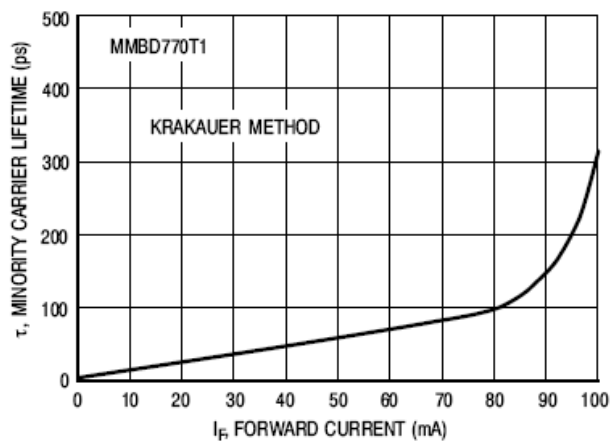


Figure 2. Minority Carrier Lifetime

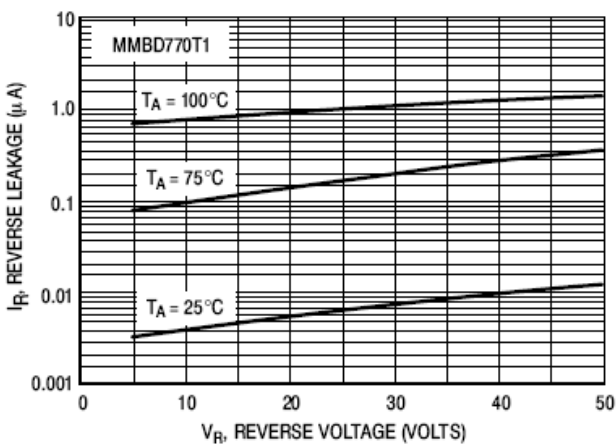


Figure 3. Reverse Leakage

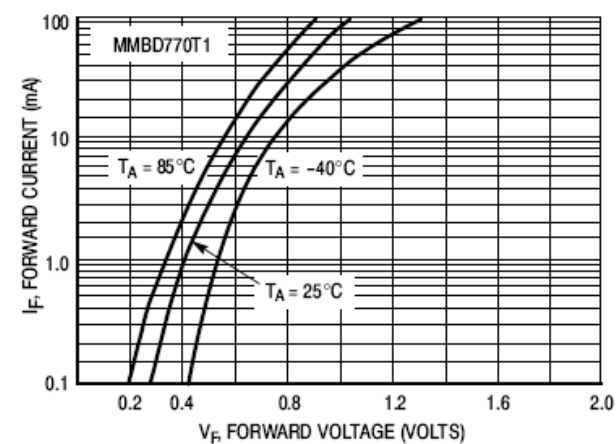


Figure 4. Forward Voltage

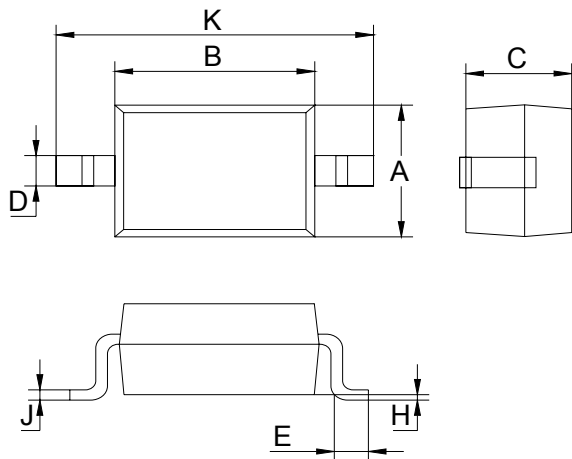
Schottky Barrier Diode

MMDL770

PACKAGE OUTLINE

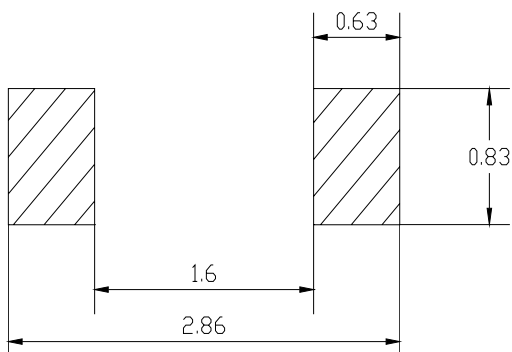
Plastic surface mounted package

SOD-323



SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MMDL770	SOD-323	3000/Tape&Reel