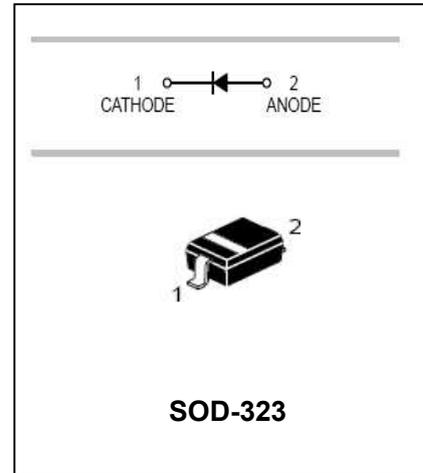


Schottky Barrier Diode

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	T_{STG}	-55 to+150	$^\circ\text{C}$

Schottky Barrier Diode

MMDL770

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	70				$I_R=10\mu A$
Forward voltage	V_F		0.7	1.0	V	$I_F=10mA$
Reverse current	I_R		9.0	200	nA	$V_R=35V$
Capacitance between terminals	C_T		0.5	1.0	pF	$V_R=20V, f=1MHz$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

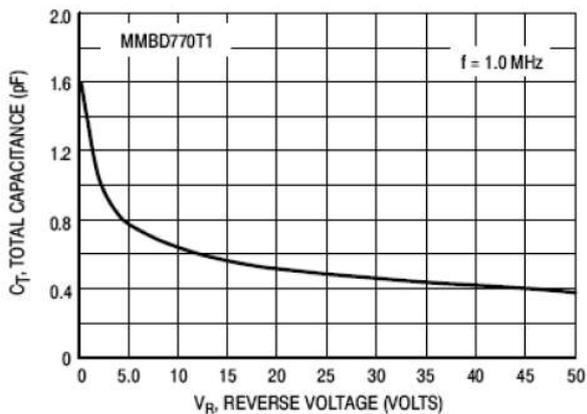


Figure 1. Total Capacitance

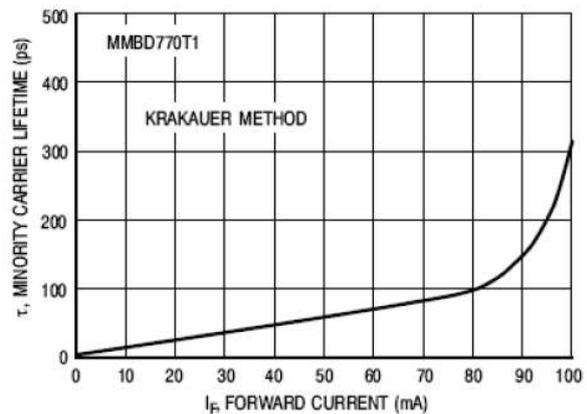


Figure 2. Minority Carrier Lifetime

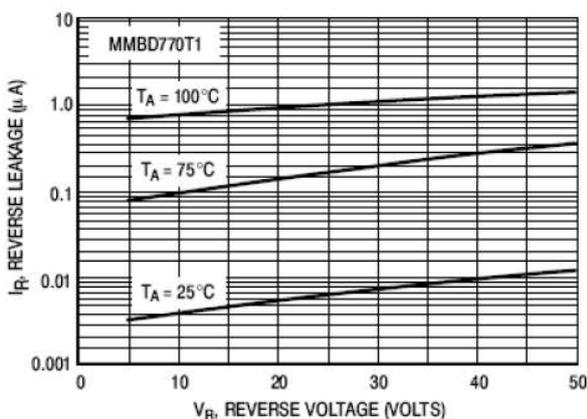


Figure 3. Reverse Leakage

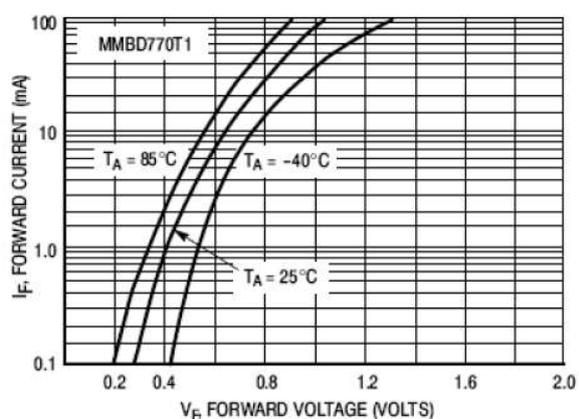


Figure 4. Forward Voltage

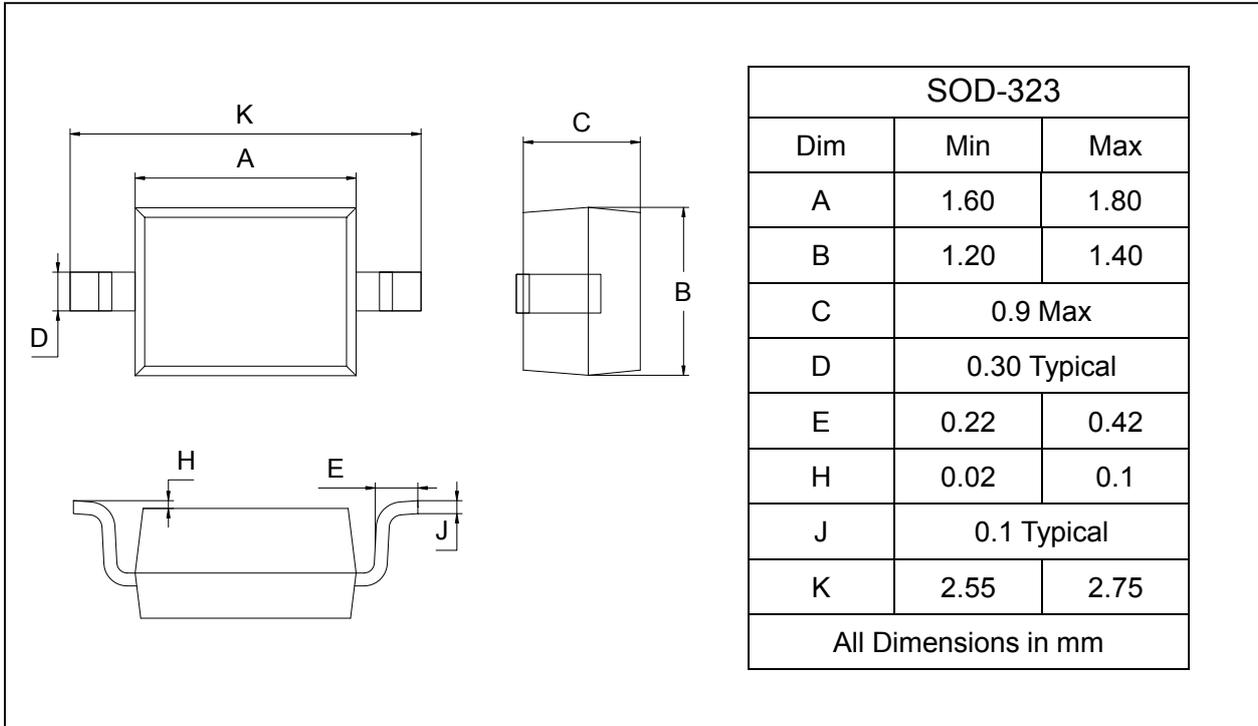
Schottky Barrier Diode

MMDL770

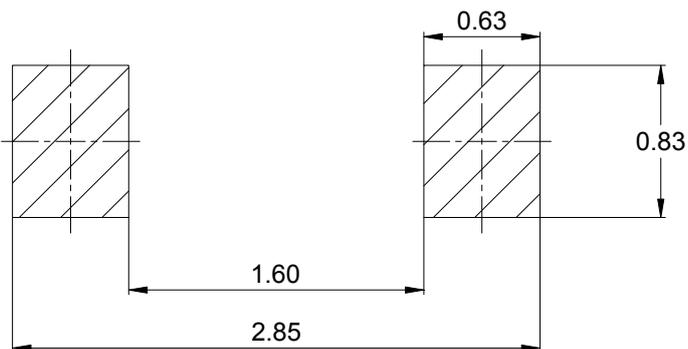
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

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