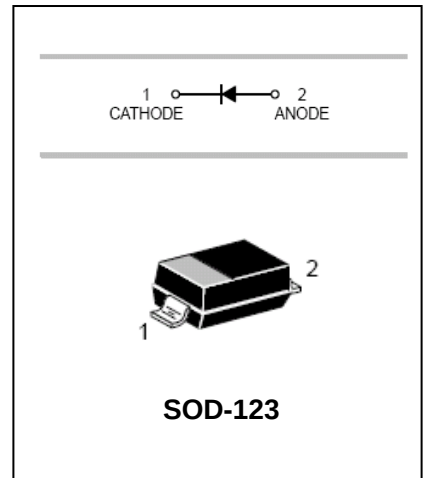


Schottky Barrier Diode**MMSD301/MMSD701****FEATURES**

- Extremely low minority carrier lifetime.
- Very low capacitance.
- Low reverse leakage.
- Pb-Free packages are available.

**APPLICATIONS**

- Schottky barrier diodes.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMSD301	XT	SOD-123
MMSD701	XH	SOD-123

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V_R	30	V
MMSD301 MMSD701		70	
Forward continuous Current	I_F	200	mA
Power Dissipation	P_d	225	mW
Junction temperature	T_j	-55to +125	°C
Storage temperature range	T_{stg}	-65to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Schottky Barrier Diode

MMSD301/MMSD701

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage MMSD301 MMSD701	$V_{(BR)R}$	$I_R=10\mu A$	30 70			V
Forward voltage MMSD301 MMSD701	V_F	$I_F=1.0mA$ $I_F=10mA$ $I_F=1.0mA$ $I_F=10mA$		0.38 0.52 0.42 0.7	0.45 0.6 0.5 1.0	V
Reverse current MMSD301 MMSD701	I_R	$V_R=25V$ $V_R=35V$		13 9.0	200 200	nA nA
Diode Capacitance MMSD301 MMSD701	C_d	$V_R=0V, f=1MHz$		0.9 0.5	1.5 1.0	pF

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

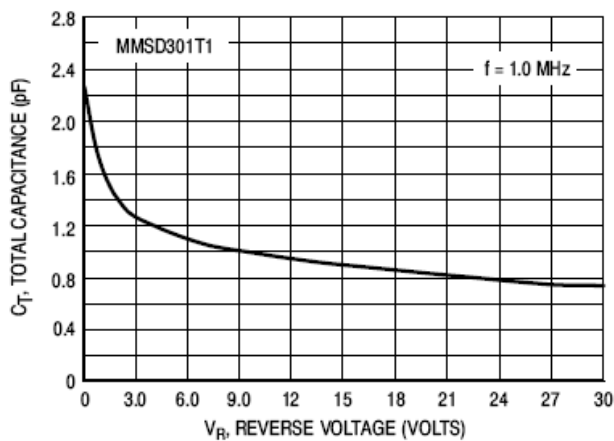


Figure 1. Total Capacitance

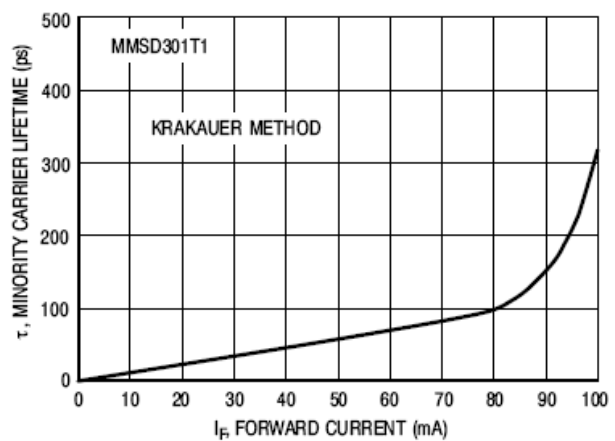


Figure 2. Minority Carrier Lifetime

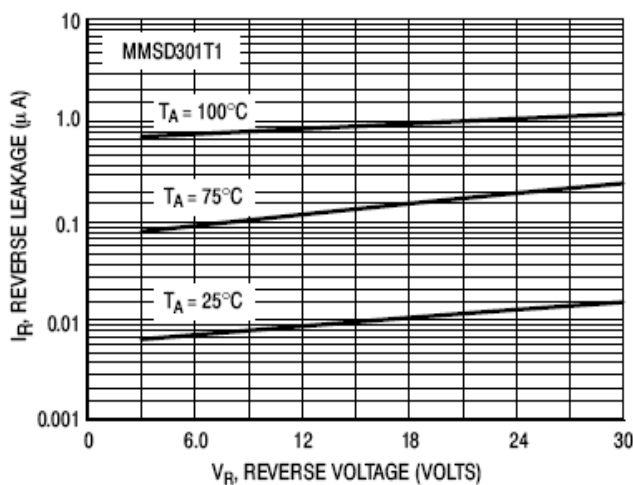


Figure 3. Reverse Leakage

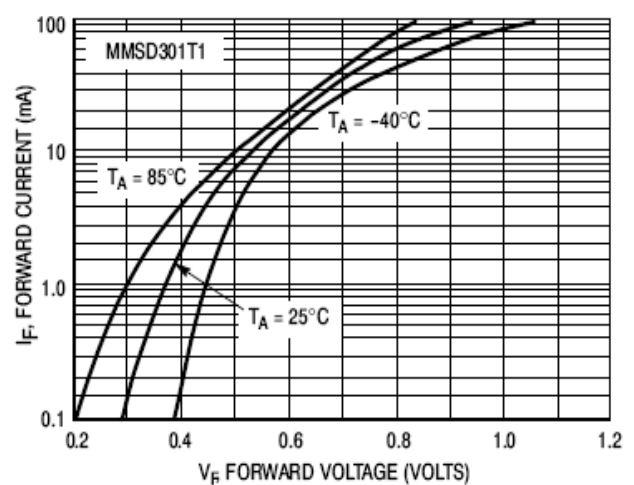


Figure 4. Forward Voltage

Schottky Barrier Diode

MMSD301/MMSD701

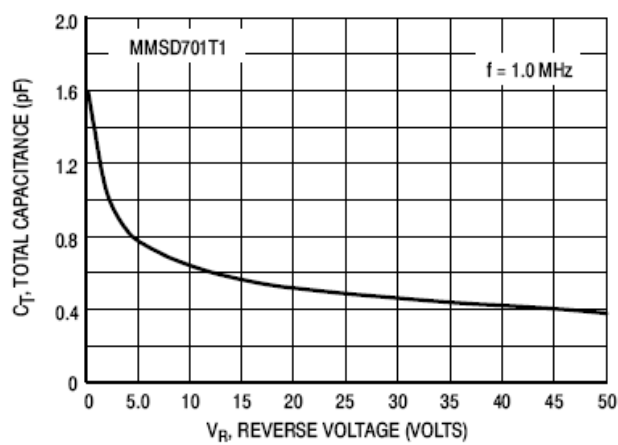


Figure 5. Total Capacitance

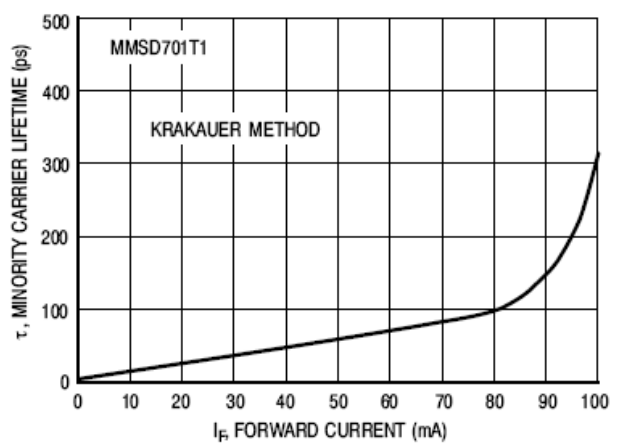


Figure 6. Minority Carrier Lifetime

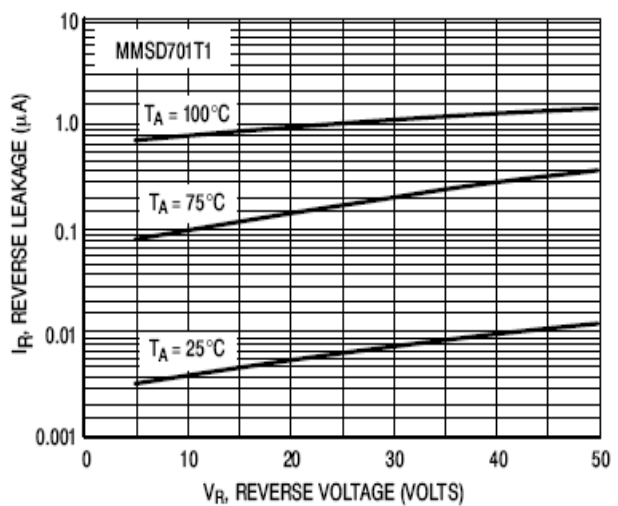


Figure 7. Reverse Leakage

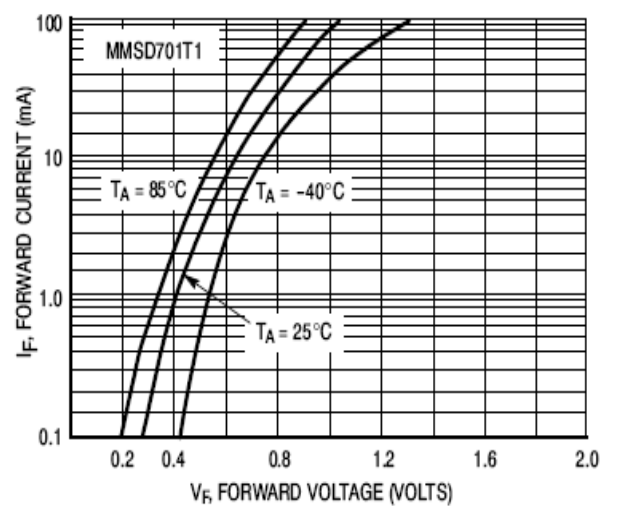


Figure 8. Forward Voltage

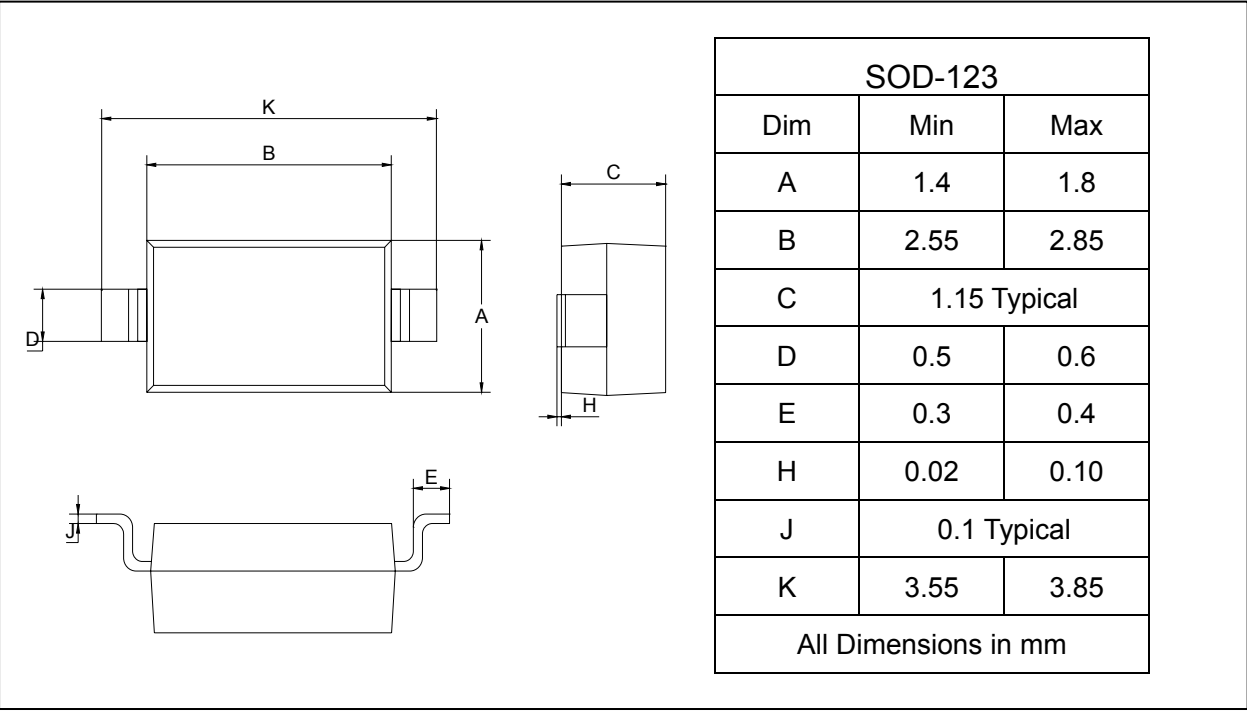
Schottky Barrier Diode

MMSD301/MMSD701

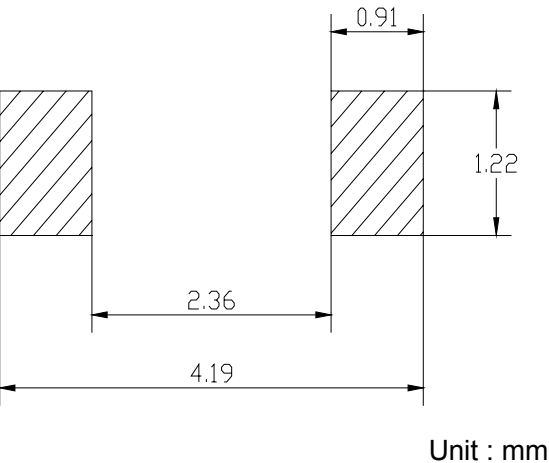
PACKAGE OUTLINE

Plastic surface mounted package

SOD-123



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
MMSD301/MMSD701	SOD-123	3000/Tape&Reel