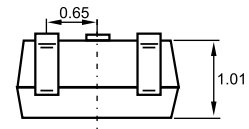
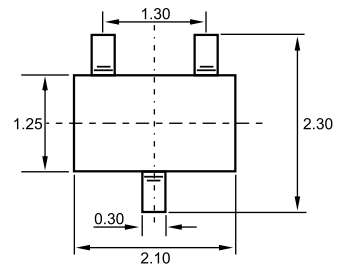

SOT-323


Dimensions in inches and (millimeters)

Features

- ✧ Extremely low minority carrier lifetime.
- ✧ Very low capacitance.
- ✧ Low reverse leakage.

Applications

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

Ordering Information

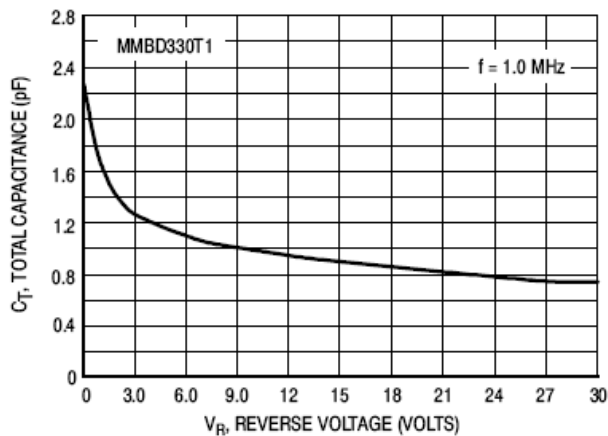
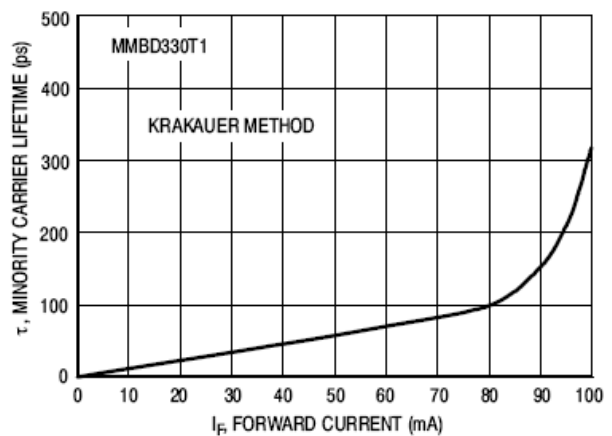
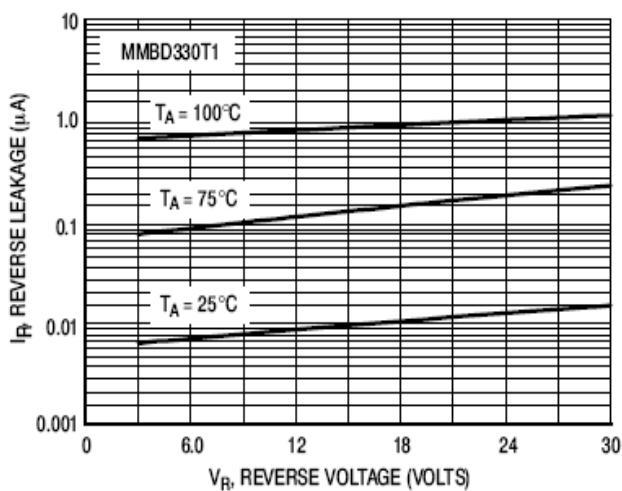
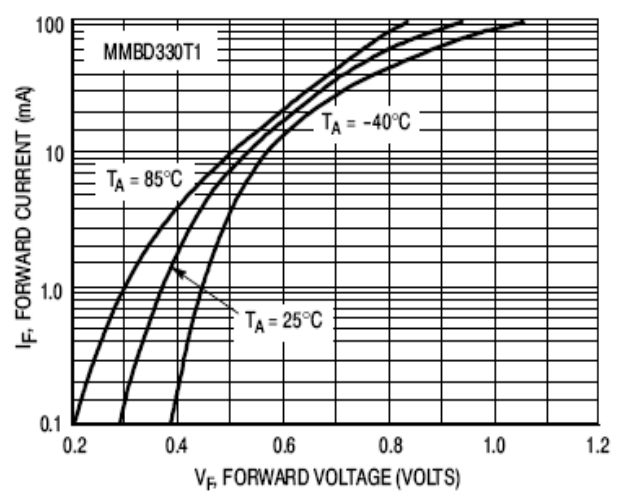
Type No.	Marking	Package Code
MMBD330	4T	SOT-323
MMBD770	5H	SOT-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	30 70	V
Forward Continuous Current (DC)	I_F	200	mA
Peak Forward Surge Current	I_{FSM}	1.0	A
Power Dissipation	P_d	120	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55-+150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse Breakdown voltage	$V_{(BR)R}$	$I_R=100\mu A$	30		V
MMBD330 MMBD770			70		
Reverse current	I_R	$V_R=25V$ $V_R=35V$		200	nA
MMBD330 MMBD770				200	
Forward voltage	V_F	$I_F=1.0mA$ $I_F=10mA$ $I_F=1.0mA$ $I_F=10mA$		0.45	V
MMBD330 MMBD770				0.60	
				0.50	
				1.0	
Diode capacitance	C_D	$V_R=15V, f=1MHz$ $V_R=20V, f=1MHz$		0.9	pF
MMBD330 MMBD770				0.5	

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

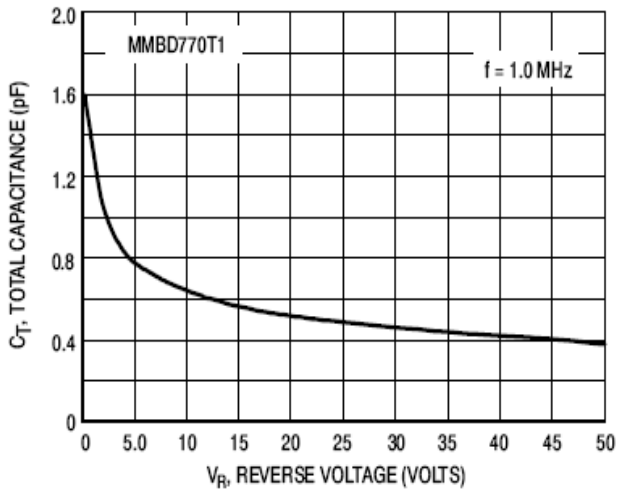


Figure 5. Total Capacitance

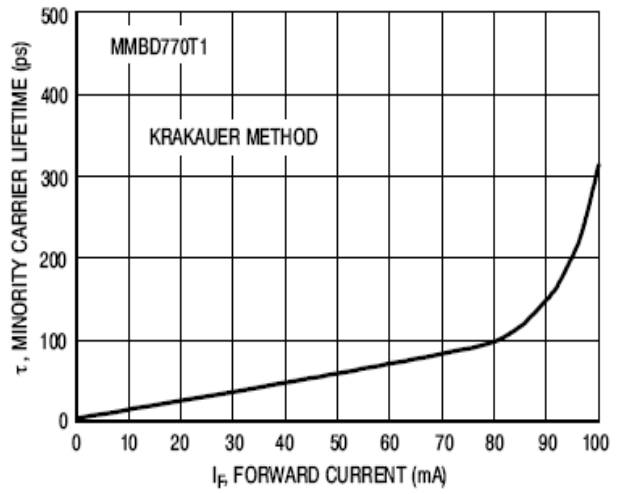


Figure 6. Minority Carrier Lifetime

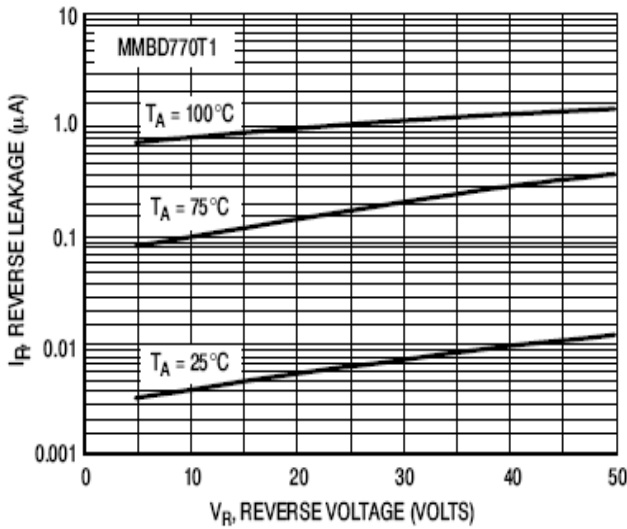


Figure 7. Reverse Leakage

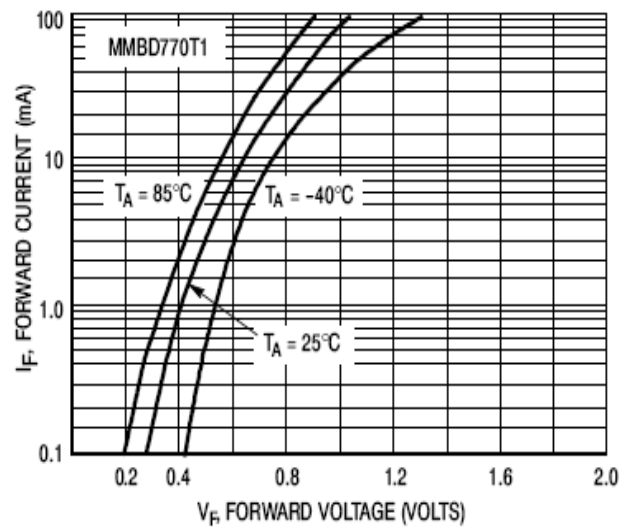


Figure 8. Forward Voltage