Micro Commercial Components

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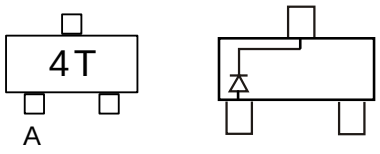
MMBD301

Pin Configuration
Top View

30 Volts Schottky Barrier Diodes

Features

- High Efficiency UHF and VHF Detector Applications.
- Low Capacitance and Low Reverse Leakage
- Extremely Low Minority Carrier Lifetime – 15ps (Typ)
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



Maximum Ratings

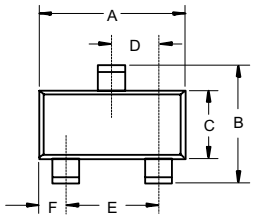
- Operating Temperature: -55℃ to +125℃
- Storage Temperature: -55℃ to +150℃

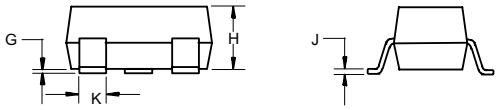
Rating	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Power Dissipation @ T_A = 25℃ Derate above 25℃	P_{TOT}	200 2.0	mW mW/℃

Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Min	Typ	Max	Test Cond.
Reverse Breakdown Voltage	$V_{(BR)R}$	30V			I_R=10μA T_A = 25℃
Forward Voltage	V_F		0.52V 0.38V	0.60V 0.45V	I_{FM} = 10mA; I_{FM} =1.0mA;
Reverse Leakage	I_R		13nA	200nA	V_R=25Volts
Junction Capacitance	C_J		0.9pF	1.5pF	Measured at f=1.0MHz, V_R=15V

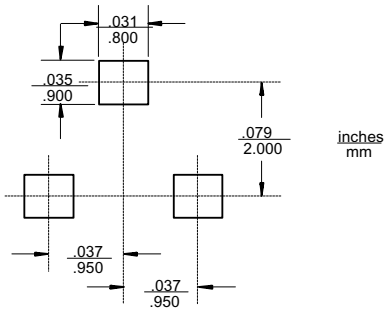
SOT-23





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout



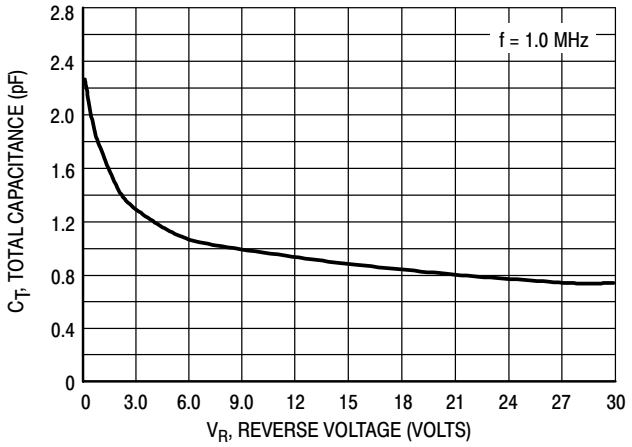


Figure 1. Total Capacitance

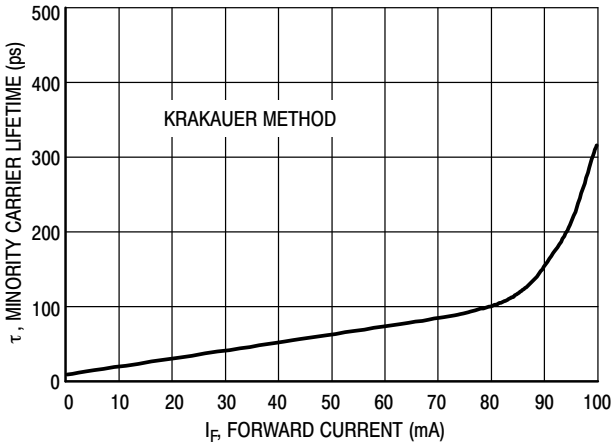


Figure 2. Minority Carrier Lifetime

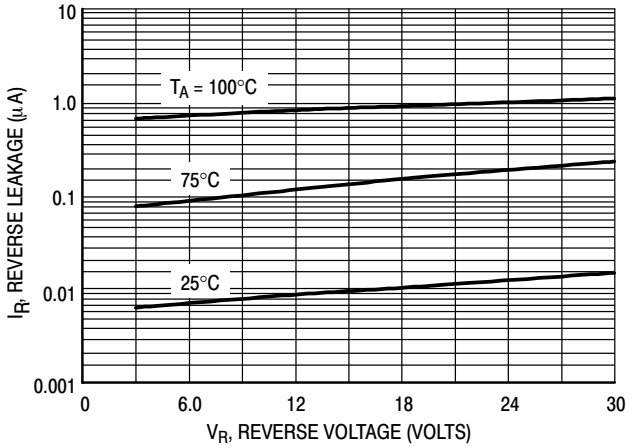


Figure 3. Reverse Leakage

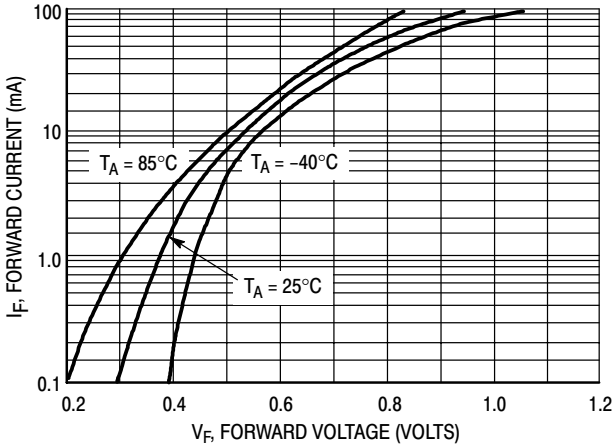


Figure 4. Forward Voltage

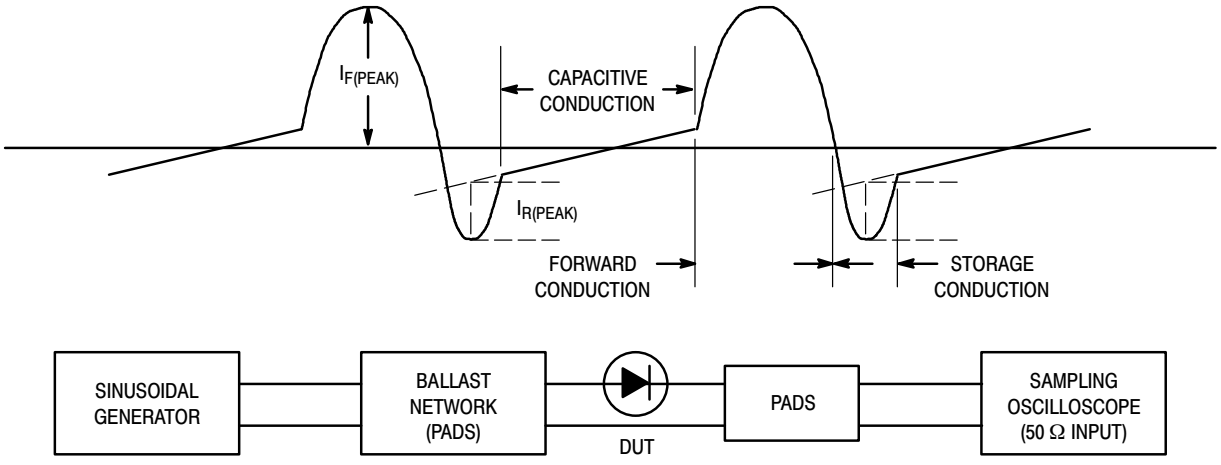


Figure 5. Krakauer Method of Measuring Lifetime

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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