



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD301

Pin Configuration Top View

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

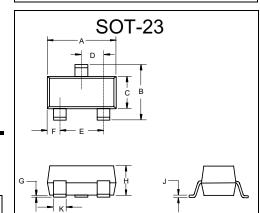
- Operating Temperature: -55 $^{\circ}$ C to +125 $^{\circ}$ C
- Storage Temperature: -55°C to +150°C

Rating	Symbol	Value	Unit
Reverse Voltage	V_R	30	٧
Forward Power Dissipation @ T _A = 25°C Derate above 25°C	Р _{тот}	200 2.0	mW/°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

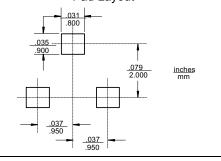
Characteristic	Symbol	Min	Тур	Max	Test Cond.
Reverse Breakdown Voltage	$V_{(BR)R}$	30V			I _R =10μA T _A = 25℃
Forward Voltage	V _F		0.52V 0.38V	0.60V 0.45V	I _{FM} = 10mA; I _{FM} =1.0mA;
Reverse Leakage	I _R		13nA	200nA	V _R =25Volts
Junction Capacitance	СJ		0.9pF	1.5pF	Measured at f=1.0MHz, V _R =15V

30 Volts Schottky Barrier Diodes



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.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	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout

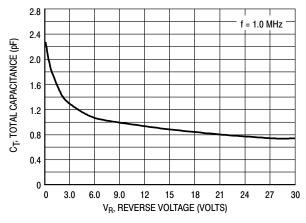


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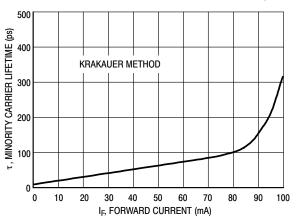
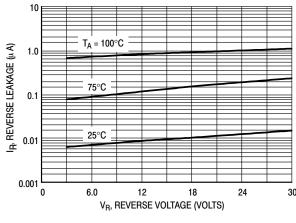


Figure 1. Total Capacitance

Figure 2. Minority Carrier Lifetime



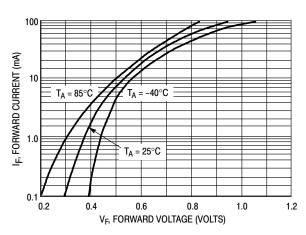


Figure 3. Reverse Leakage

Figure 4. Forward Voltage

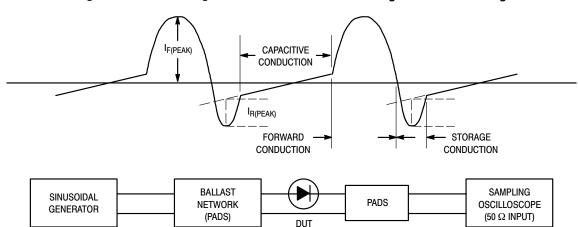


Figure 5. Krakauer Method of Measuring Lifetime



Ordering Information:

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

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