



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

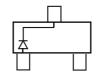
MMBD301

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

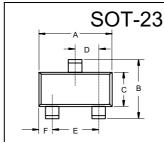
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

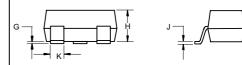
Rating	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Power Dissipation @ $T_A = 25^{\circ}C$ Derate above $25^{\circ}C$	P _{TOT}	200 2.0	mW/℃

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	С³		0.9pF	1.5pF	Measured at f=1.0MHz, V _R =15V

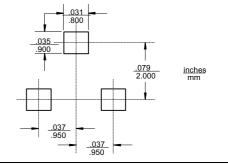
30 Volts Schottky Barrier Diodes





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	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	

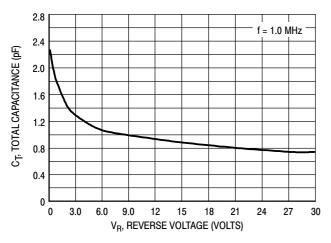
Suggested Solder Pad Layout



MMBD301



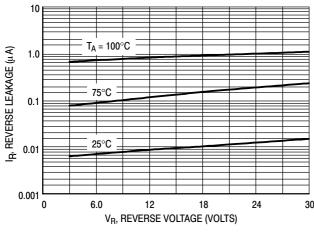
Micro Commercial Components



500 KRAKAUER METHOD KRAKAUER METHOD 100 0 10 20 30 40 50 60 70 80 90 100 I_F, FORWARD CURRENT (mA)

Figure 1. Total Capacitance

Figure 2. Minority Carrier Lifetime



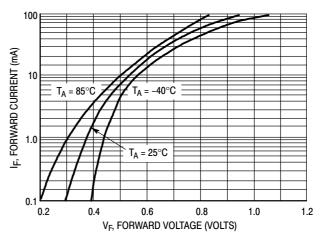


Figure 3. Reverse Leakage

Figure 4. Forward Voltage

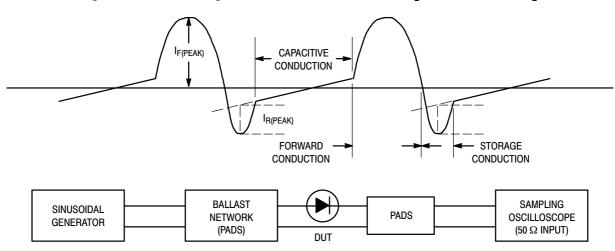


Figure 5. Krakauer Method of Measuring Lifetime



Ordering Information :

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC): MMBD301-TP