

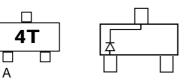
**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

### **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 <sub>R</sub>	30	V
Forward Power Dissipation @ $T_A = 25^{\circ}C$ Derate above $25^{\circ}C$	P <sub>TOT</sub>	200 2.0	mW mW/℃

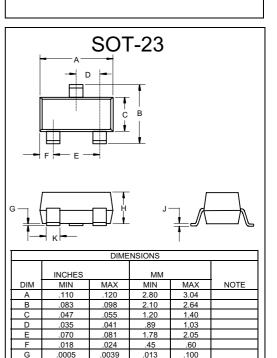
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

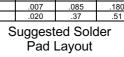
Characteristic	Symbol	Min	Тур	Max	Test Cond.
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	30V			I <sub>R</sub> =10μΑ T <sub>A</sub> = 25℃
Forward Voltage	VF		0.52V 0.38V	0.60V 0.45V	I <sub>FM</sub> = 10mA; I <sub>FM</sub> =1.0mA;
Reverse Leakage	I <sub>R</sub>		13nA	200nA	V <sub>R</sub> =25Volts
Junction Capacitance	CJ		0.9pF	1.5pF	Measured at f=1.0MHz, V <sub>R</sub> =15V

# MMBD301

Pin Configuration Top View

## 30 Volts Schottky Barrier Diodes





.89

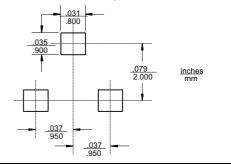
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## MMBD301



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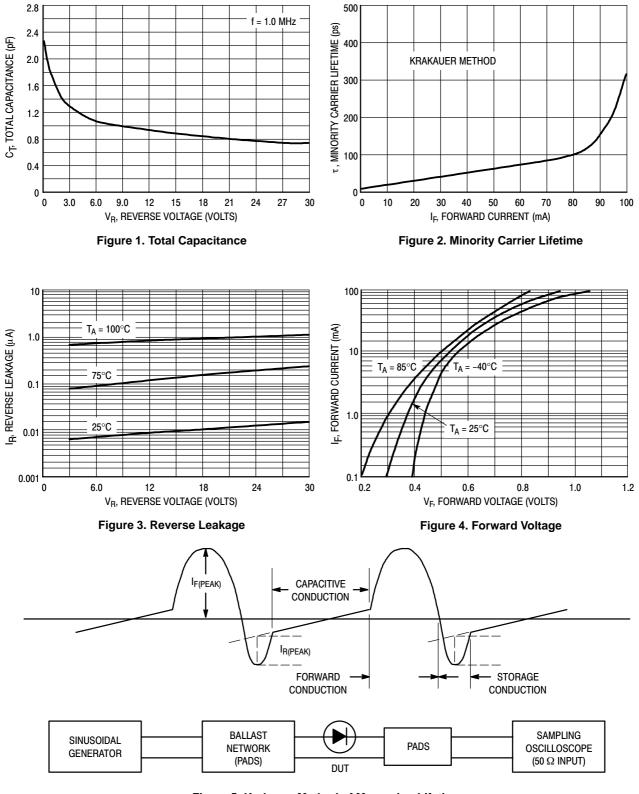


Figure 5. Krakauer Method of Measuring Lifetime

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### **Ordering Information :**

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

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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.

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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.

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