

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
- Halogen Free. "Green" Device (Note 1)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

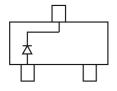
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
MMBD301	4T	30V	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

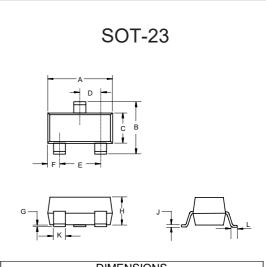
Reverse Breakdown Voltage	V _{(BR)R}	30V(Min)	I _R =10μA
Power Dissipation	P _{TOT}	200mW 2.0mW/°C	T _A = 25°C
Forward Voltage	V _F	0.52V(Typ) 0.60V(Max)	I _{FM} =10mA;
		0.38V(Typ) 0.45V(Max)	I _{FM} =1.0mA;
Reverse Leakage	I _R	13nA(Typ) 200nA(Max)	V _R = 25V
Junction Capacitance	CJ	0.9pF(Typ) 1.5pF(Max)	Measured at f=1.0MHz, V _R =15V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:

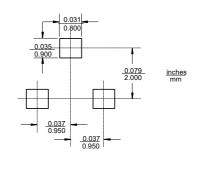


30 Volts Schottky Barrier Diodes



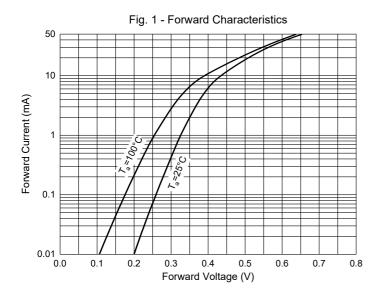
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.110	0.120	2.80	3.04			
В	0.083	0.104	2.10	2.64			
С	0.047	0.055	1.20	1.40			
D	0.034	0.041	0.85	1.05			
Е	0.067	0.083	1.70	2.10			
F	0.018	0.024	0.45	0.60			
G	0.0004	0.006	0.01	0.15			
Н	0.035	0.043	0.90	1.10			
J	0.003	0.007	0.08	0.18			
K	0.012	0.020	0.30	0.51			
L	0.007	0.020	0.20	0.50			

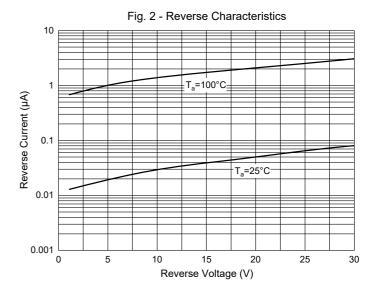
Suggested Solder Pad Layout

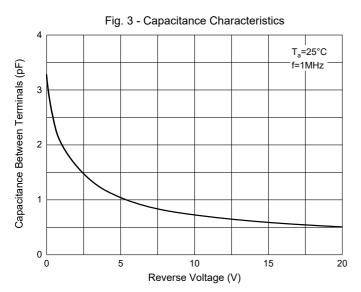


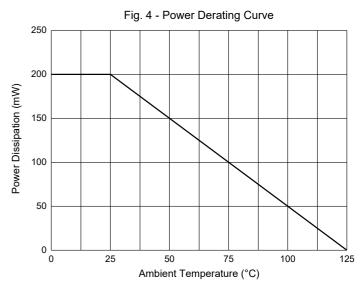


Curve Characteristics











Ordering Information

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

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