

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD1501(A) **THRU** MMBD1505(A)

Features

- Low Leakage
- Surface Mount Package Ideally Suited for Automatic Insertion
- 150°C Junction Temperature
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

High Conductance Low Leakage Diode

350mW

Mechanical Data

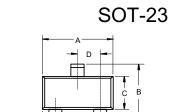
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: See Diagram
- Weight: 0.008 grams (approx.)

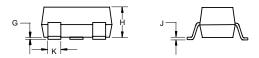
Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Working Inverse Voltage	V_{IV}	180	V
DC Forward Current	lF	600	mA
Average Rectified Current	lo	200	mA
Recurrent Peak Forward Current	İf	700	mA
Peak Forward Surge Current @t=1.0s @t=1.0ms	lf/curno)	1.0 2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance, Junction to Ambient	Rеја	357	°C/W
Operation & Storage Temp. Range	Тј, Тѕтс	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

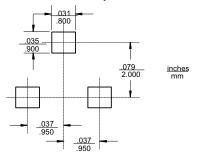
Charateristic	Symbol	Min	Max	Unit	Test Cond.
Breakdown Voltage	B∨	200		V	I _R =5.0uA
Forward Voltage Drop	VF	620 720 800 0.83 0.87 0.9	750 850 950 1.1 1.3 1.5	mV mV mV >>>	I _F =1.0mA I _F =10mA I _F =50mA I _F =100mA I _F =200mA I _F =300mA
Reverse Current	I _R		10 5.0	nA uA	V _R =180V V _R =180V T _A =150°C
Junction Capacitance	Cj		4	pF	V _R =0V, f=1.0MHz





DIMENSIONS						
N.O.	INCHES	MAY	MM	MAY	NOTE	
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		
О	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
Ð	.0005	.0039	.013	.100		
Τ	.035	.044	.89	1.12		
٦	.003	.007	.085	.180		
K	015	020	37	51		

Suggested Solder Pad Layout



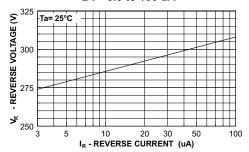
Note: 1) These ratings are based on a max junction temperature of 150 degrees C
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operation

MMBD1501(A) thru MMBD1505(A)

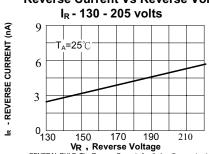


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REVERSE VOLTAGE vs REVERSE CURRENT BV - 3.0 to 100 uA

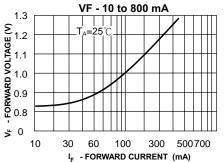


Reverse Current Vs Reverse Voltage

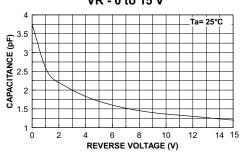


double for every ten (10) Degree C increase in Temperature

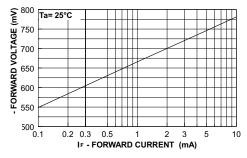
FORWARD VOLTAGE vs FORWARD CURRENT



CAPACITANCE vs REVERSE VOLTAGE VR - 0 to 15 V

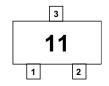


FORWARD VOLTAGE vs FORWARD CURRENT VF - 0.1 to 10 mA



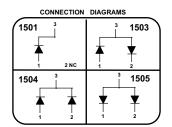
MMBD1501(A) thru MMBD1505(A)





MARKING

MMBD1501(A) 11/A11 MMBD1503(A) 13/A13 MMBD1504(A) 14/A14 MMBD1505(A) 15/A15





Ordering Information:

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

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