

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD1501 THRU MMBD1505

High Conductance Low Leakage Diode 350mW

Features

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

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

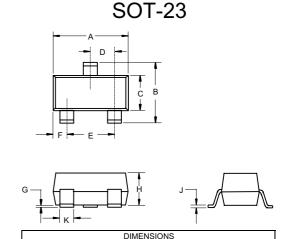
Characteristic	Symbol	Value	Unit
Working Inverse Voltage	V_{IV}	180	V
DC Forward Current	lf	600	mA
Average Rectified Current	lo	200	mA
Recurrent Peak Forward Current	İf	700	mA
Peak Forward Surge Current @t=1.0s @t=1.0ms	f(curae)	1.0 2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance, Junction to Ambient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

Note: 1) These ratings are based on a max. junction temperature of 150 degrees C

 These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operation

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 v v	I _F =1.0mA I _F =10mA I _F =50mA I _F =100mA 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					
	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	
Е	.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	

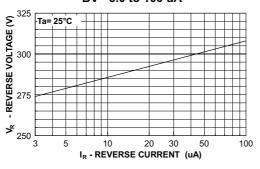
Suggested Solder Pad Layout

MMBD1501thru MMBD1505

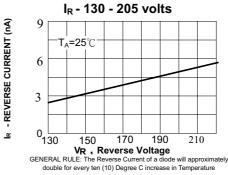


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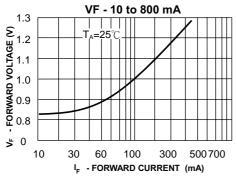
REVERSE VOLTAGE vs REVERSE CURRENT BV - 3.0 to 100 uA



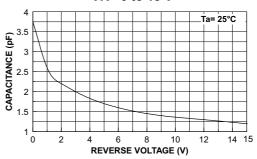
Reverse Current Vs Reverse Voltage



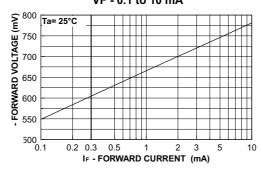
FORWARD VOLTAGE vs FORWARD CURRENT



CAPACITANCE vs REVERSE VOLTAGE VR - 0 to 15 V

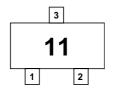


FORWARD VOLTAGE vs FORWARD CURRENT VF - 0.1 to 10 mA



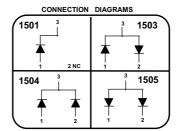
MMBD1501 thru MMBD1505





MARKING

MMBD1501 11 MMBD1503 13 MMBD1504 14 MMBD1505 15





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Ordering Information:

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

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