

ZIBO MICRO COMMERCIAL COMPONENTS CORP.



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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)
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

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

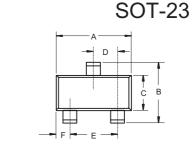
Maximum Ratings @ 25°C Unless Otherwise Specified

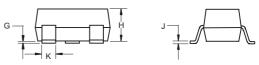
Characteristic	Symbol	Value	Unit
Working Inverse Voltage	V_{IV}	180	V
DC Forward Current	lf	600	mA
Average Rectified Current	lo	200	mA
Recurrent Peak Forward Current	İf	700	mA
Peak Forward Surge Current @t=1.0s @t=1.0ms	f(curae)	1.0 2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	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

Electrical Characteristics @ 25°C Unless Otherwise Specified

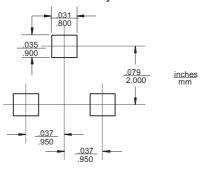
Charateristic	Symbol	Min	Max	Unit	Test Cond.
Breakdown Voltage	B∨	200		V	Ir=5.0uA
Forward Voltage Drop	VF	620 720 800 0.83 0.87 0.9	750 850 950 1.1 1.3 1.5	mV mV mV V	I _F =1.0mA I _F =10mA I _F =50mA I _F =100mA I _F =200mA I _F =300mA
Reverse Current	I _R		10 5.0	nA uA	V _R =180V V _R =180V T _A =150°C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





DIMENSIONS						
	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		
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



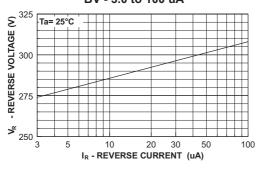
These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operation

MMBD1501thru MMBD1505

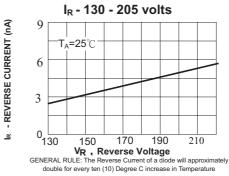


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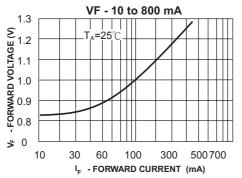
REVERSE VOLTAGE vs REVERSE CURRENT BV - 3.0 to 100 uA



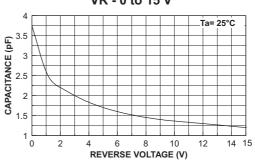
Reverse Current Vs Reverse Voltage



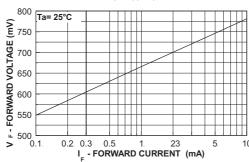
FORWARD VOLTAGE vs FORWARD CURRENT



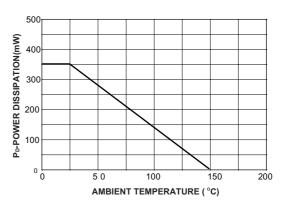
CAPACITANCE vs REVERSE VOLTAGE VR - 0 to 15 V



FORWARD VOLTAGE vs FORWARD CURRENT VF - 0.1 to 10 mA

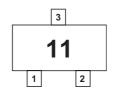


POWER DERATING CURVE



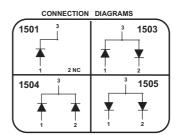
MMBD1501 thru MMBD1505





MARKING

MMBD1501 11 MMBD1503 13 MMBD1504 14 MMBD1505 15





Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

LIFE SUPPORT

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

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuineparts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC 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.