

Features

- Low Leakage
- 150°C Junction Temperature
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Mechanical Data

• Weight: 0.008 Grams (Approx.)

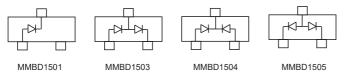
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:357°C/W Junction to Ambient

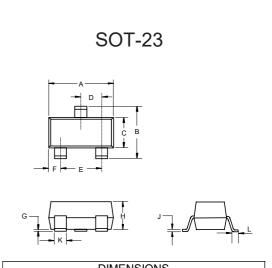
MCC Part Number		Device Marking		Working Inverse Voltage V _{IV}			
MMBD1501		11			180V		
MMBD1503		13			180V		
MMBD1504			14		180V		
MMBD1505		15			180V		
Forward Continuous Current	I	=	600mA	١			
Average Rectified Output Current	I	D	200mA				
Recurrent Peak Forward Current	i,	f	700mA				
Peak Forward Surge Current	I _{FS}	SM	1.0A 2.0A		@ t = 1.0s @ t = 1.0ms		
Power Dissipation	Р	D	350mV	V			

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

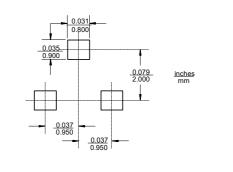






DIMENSIONS						
DIM	INC	HES	M	М	NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.014	0.020	0.35	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Reverse Breakdown Voltage	V _{BR}	200V	Ι _R =5.0μΑ
Forward Voltage Drop	V _F	0.62V(Min.) 0.72V(Min.) 0.80V(Min.) 0.83V(Min.) 0.87V(Min.) 0.90V(Min.) 0.90V(Max.) 0.95V(Max.) 1.10V(Max.) 1.30V(Max.) 1.50V(Max.)	$I_{F}=1.0mA$ $I_{F}=10.0mA$ $I_{F}=50.0mA$ $I_{F}=100.0mA$ $I_{F}=200mA$ $I_{F}=300mA$ $I_{F}=1.0mA$ $I_{F}=10.0mA$ $I_{F}=50.0mA$ $I_{F}=100.0mA$ $I_{F}=200mA$ $I_{F}=300mA$
Maximum Reverse Current	I _R	10nA 5.0μA	V _R =180V VR=180V,T _A =150°C
Maximum Junction Capacitance	CJ	4.0pF	V _R =0.0V,f=1.0MHz



Curve Characteristics

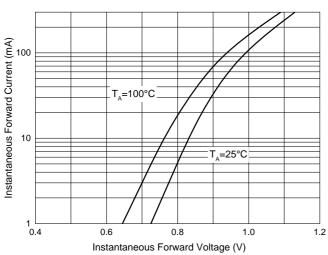
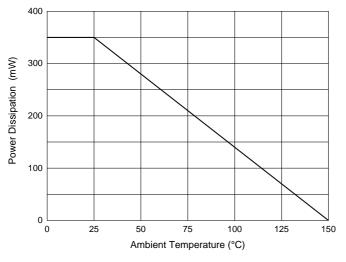
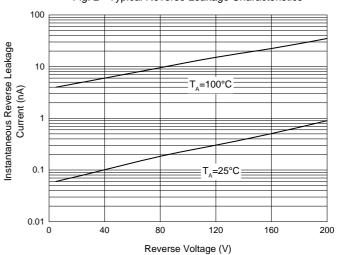


Fig. 1 - Typical Instantaneous Forward Characteristics









Ordering Information

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

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