

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

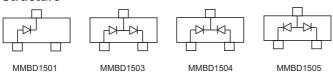
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- · Thermal Resistance:357°C/W Junction to Ambient

MCC Part Number	Device Marking	Working Inverse Voltage V _{IV}
MMBD1501	11	180V
MMBD1503	13	180V
MMBD1504	14	180V
MMBD1505	15	180V

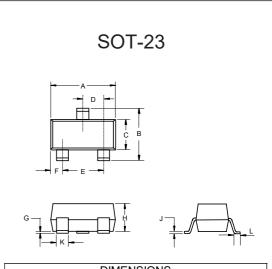
Forward Continuous Current	I _F	600mA	
Average Rectified Output Current	I _o	200mA	
Recurrent Peak Forward Current	i _f	700mA	
Peak Forward Surge Current	I _{FSM}	1.0A 2.0A	@ t = 1.0s @ t = 1.0ms
Power Dissipation	P _D	350mW	

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

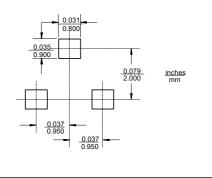


350mW Small Signal Diode



DIMENSIONS					
DIM INC		HES MM		М	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	
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



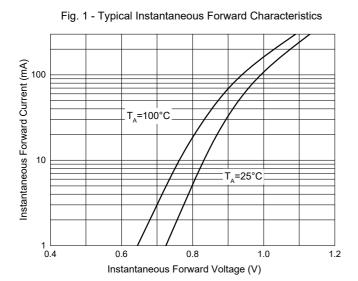


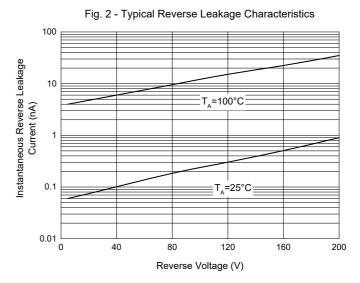
Electrical Characteristics @ 25°C Unless Otherwise Specified

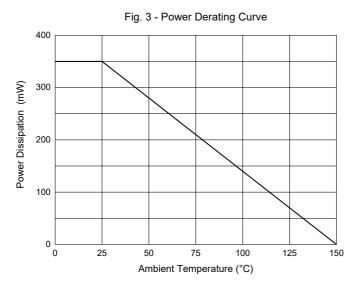
Minimum Reverse Breakdown Voltage	V _{BR}	200V	I _R =5.0μA
Forward Voltage Drop	V _F	0.62V(Min.) 0.72V(Min.) 0.80V(Min.) 0.83V(Min.) 0.87V(Min.) 0.90V(Min.) 0.75V(Max.) 0.85V(Max.) 0.95V(Max.) 1.10V(Max.) 1.30V(Max.) 1.50V(Max.)	$I_{F}=1.0\text{mA}$ $I_{F}=10.0\text{mA}$ $I_{F}=50.0\text{mA}$ $I_{F}=100.0\text{mA}$ $I_{F}=200\text{mA}$ $I_{F}=300\text{mA}$ $I_{F}=1.0\text{mA}$ $I_{F}=10.0\text{mA}$ $I_{F}=10.0\text{mA}$ $I_{F}=50.0\text{mA}$ $I_{F}=200\text{mA}$ $I_{F}=300\text{mA}$
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









Ordering Information

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

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