

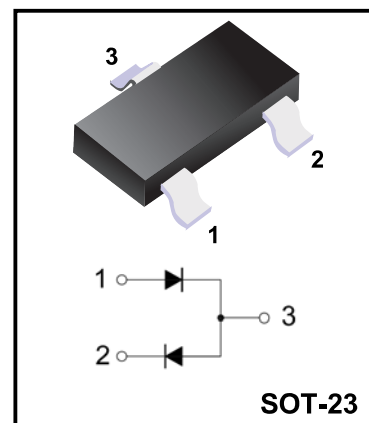
Plastic-Encapsulate Diodes

FEATURES

- ♦Low Leakage
- ♦High Conductance

Marking Code

MMBD1503A	A13
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Solid dot = Green molding compound device, if none, the normal device.

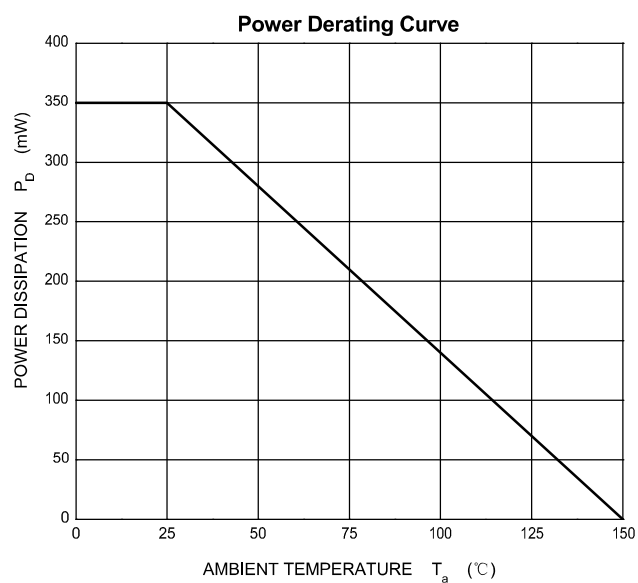
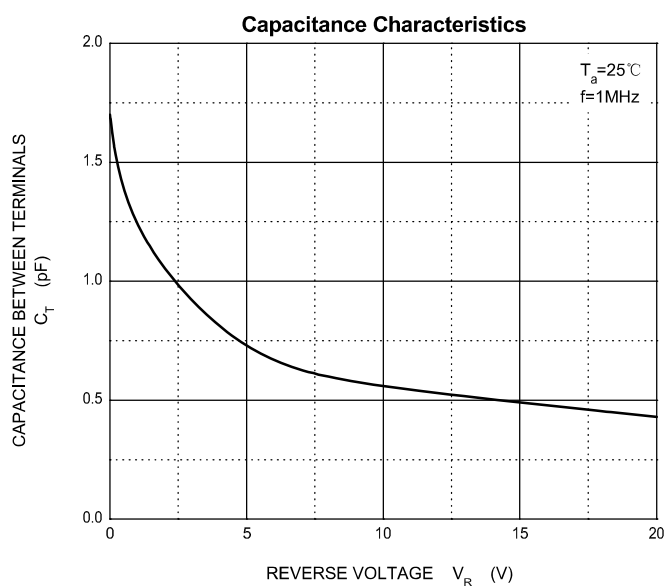
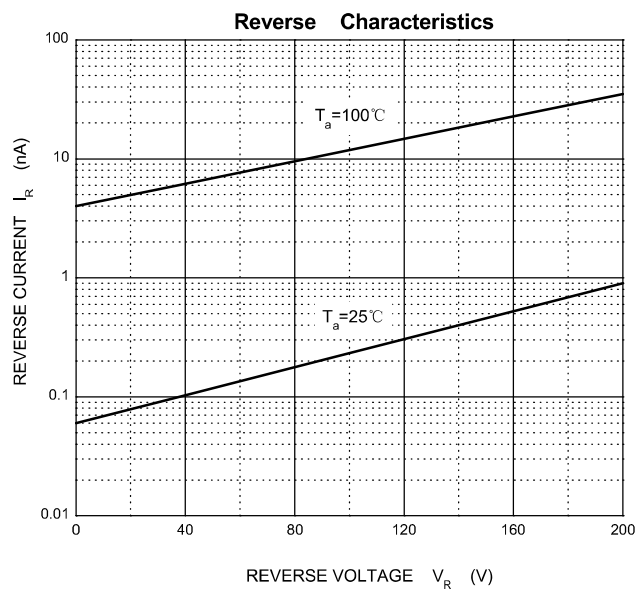
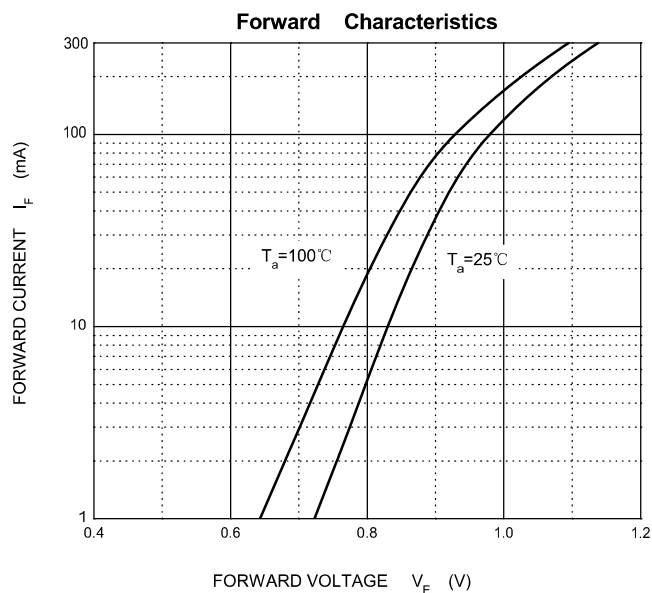
MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	200	V
I_O	Continuous Forward Current	200	mA
I_{FM}	Peak Forward Current	700	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @t=8.3ms	2.0	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	357	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=5\mu A$	200			V
Reverse current	I_R	$V_R=180V$			10	nA
Forward voltage	V_F	$I_F=1mA$			0.75	V
		$I_F=10mA$			0.85	
		$I_F=50mA$			0.95	
		$I_F=100mA$			1.1	
		$I_F=200mA$			1.3	
		$I_F=300mA$			1.5	
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$			4	pF

Typical Characteristics



Ordering information

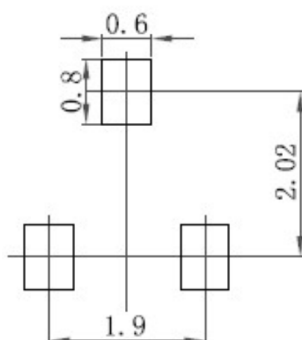
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



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