

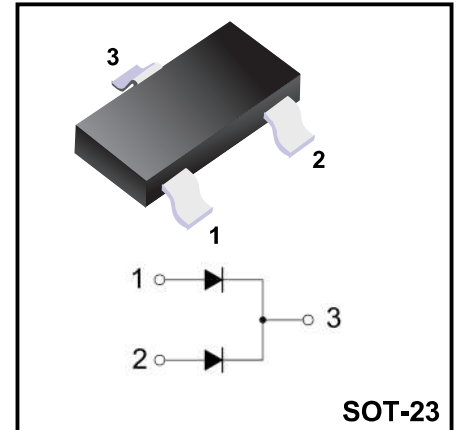
**Plastic-Encapsulate Diodes**

LOW LEAKAGE DIODE

**FEATURES**

- ◆Low Leakage
- ◆High Conductance

Marking Code	
MMBD1504A	A14



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

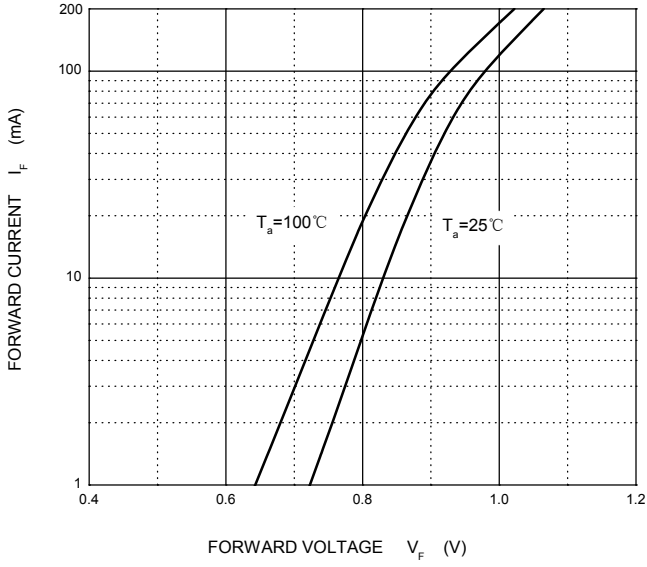
Parameter	Symbol	Value	Unit
DC Blocking Voltage	$V_R$	200	V
Continuous Forward Current	$I_o$	200	mA
Peak Forward Current	$I_{FM}$	700	mA
Non-repetitive Peak Forward Surge Current @t=1s	$I_{FSM}$	1	A
@t=1ms		2	A
Power Dissipation	$P_D$	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~+150	°C

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

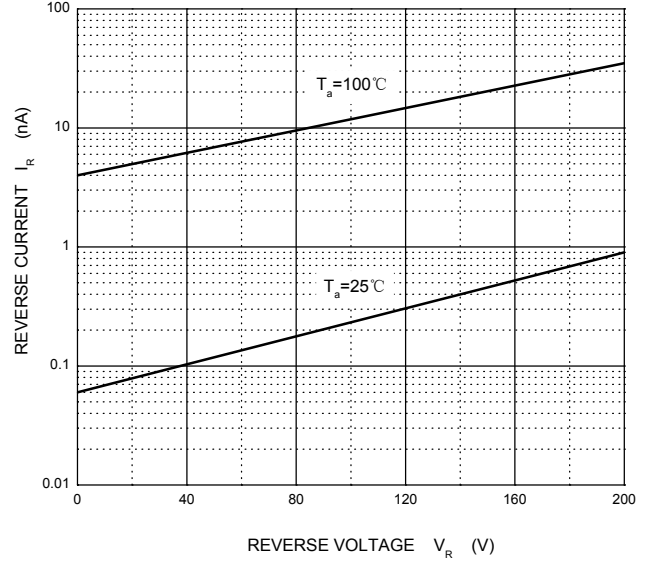
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=5\mu A$	200			V
Reverse current	$I_R$	$V_R=180V$			10	nA
Forward voltage	$V_F$	$I_F=1mA$			0.75	V
		$I_F=10mA$			0.85	
		$I_F=50mA$			0.95	
		$I_F=100mA$			1.1	
		$I_F=200mA$			1.3	
		$I_F=300mA$			1.5	
Total capacitance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

**Typical Characteristics**

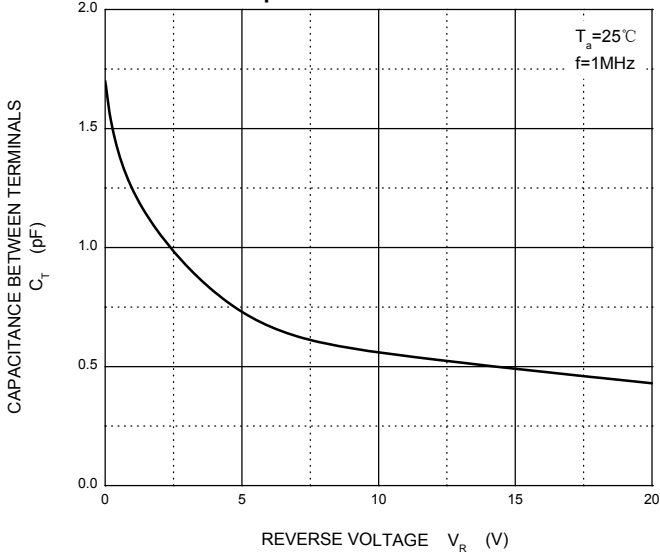
**Forward Characteristics**



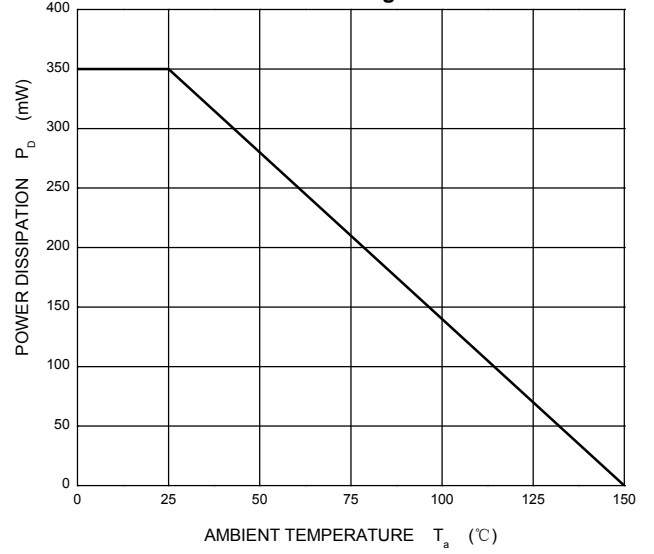
**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**



**Ordering information**

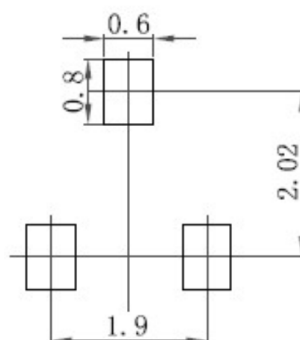
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

**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**



## Disclaimer

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