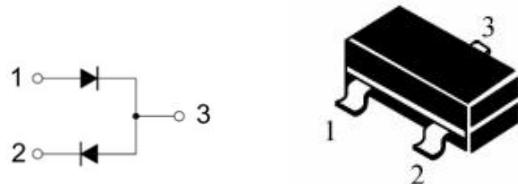


Switching Diode 开关二极管**■SOT-23 Internal Configuration 内部结构****■Features 特点**

Characteristic 特性参数	Symbol 符号	Max 最大值	Unit 单位
Power dissipation 耗散功率	P _D (Ta=25°C)	225	mW
Forward Current 正向电流	I _F	150	mA
Non-Repetitive Peak Forward Current 不重复峰值正向电流	I _{FM}	300	mA
Non-Repetitive Peak Surge Current@t=1μS 不重复峰值浪涌电流@t=1S	I _{FSM}	2 1	A
Reverse Voltage 反向电压	V _R	100	V
Thermal Resistance J-A 结到环境热阻	R _{θJA}	556	°C/W
Junction and Storage Temperature 结温和储藏温度	T _J , T _{stg}	-55 to +150	°C

■Device Marking 产品打标

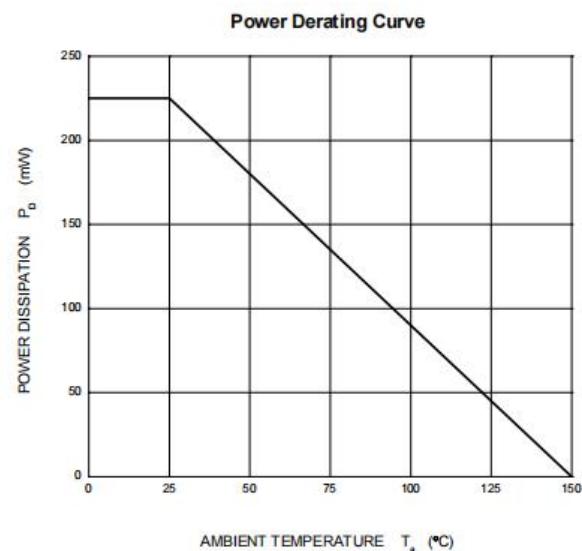
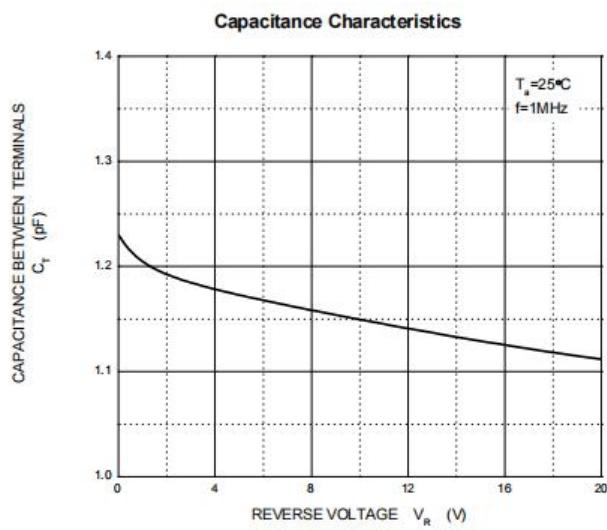
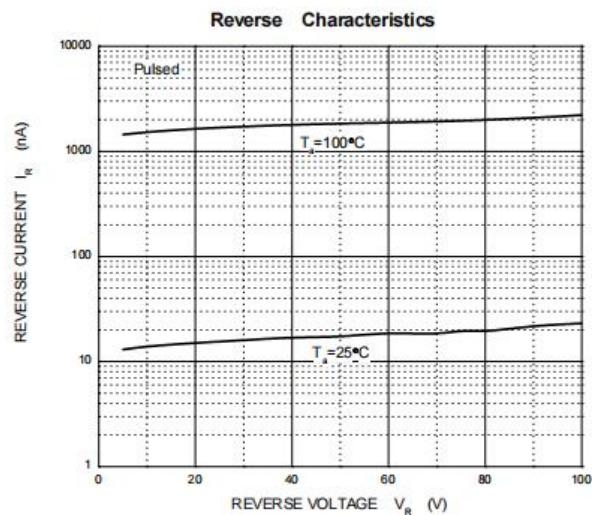
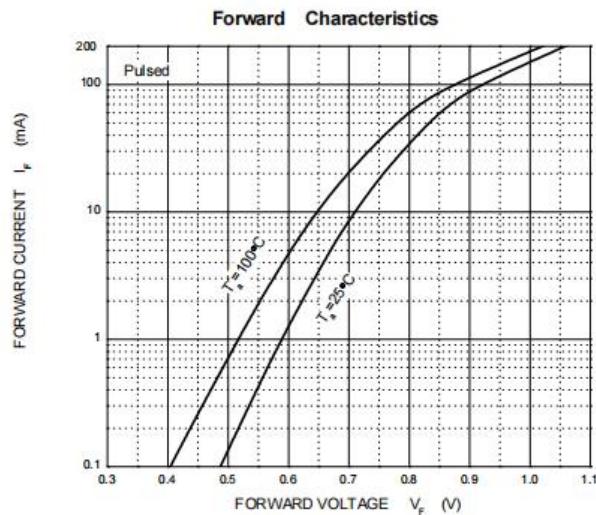
MMBD7000=M5C

■Electrical Characteristics 电特性

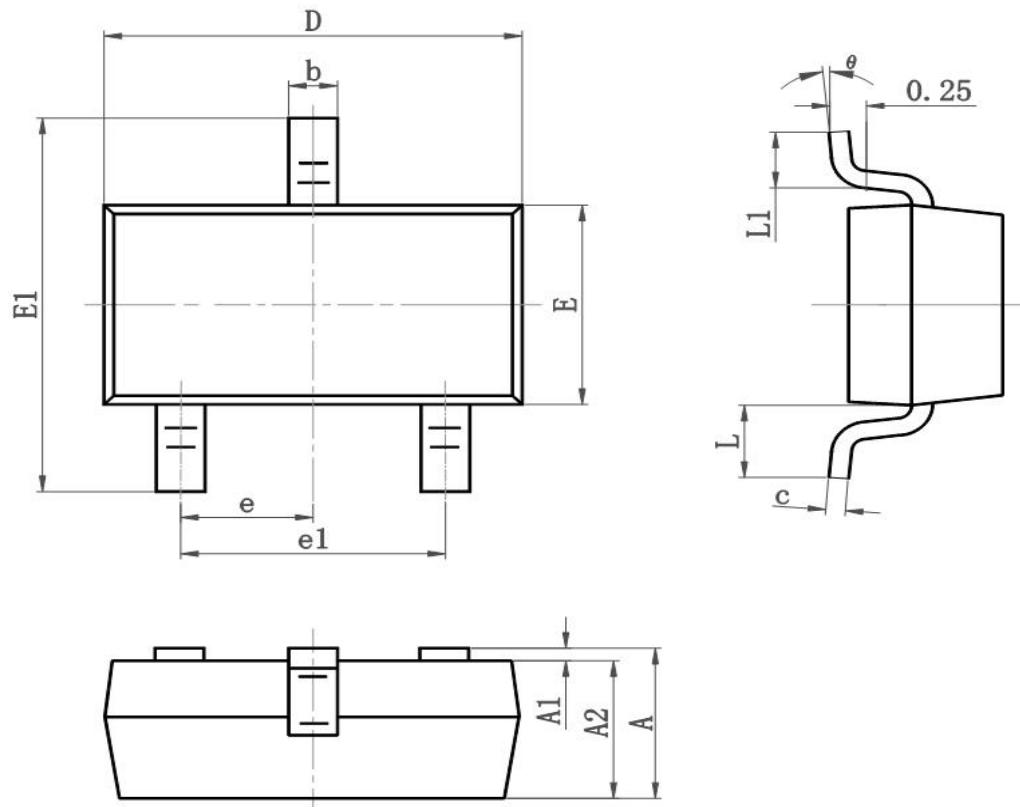
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Reverse Breakdown Voltage 反向击穿电压 (IR=100uA)	V(BR)	100	—	V
Reverse Leakage Current(VR=50V) 反向漏电流(VR=100V)	IR	—	1 3	μA μA
Forward Voltage(IF=1mA) 正向电压(IF=10mA) (IF=100mA) (IF=150mA)	VF	0.55 0.67 0.75	0.7 0.82 1.10 1.25	V
Diode Capacitance 二极管电容 (VR=0V, f=1MHz)	C _D	—	2	pF
Reverse Recovery Time 反向恢复时间	T _{rr}	—	4	nS

■Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°