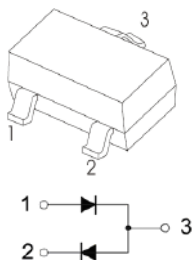


SOT-23



Marking: M5C

特征 Features

- 开关速度小于 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 最大功率耗散 225mW; Power Dissipation of 225mW
- 高稳定性和可靠性。High Stability and High Reliability
- 反向漏电流小。Low reverse leakage

机械数据 Mechanical Data

- 封装: SOT-23 封装 SOT-23 Small Outline Plastic Package
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

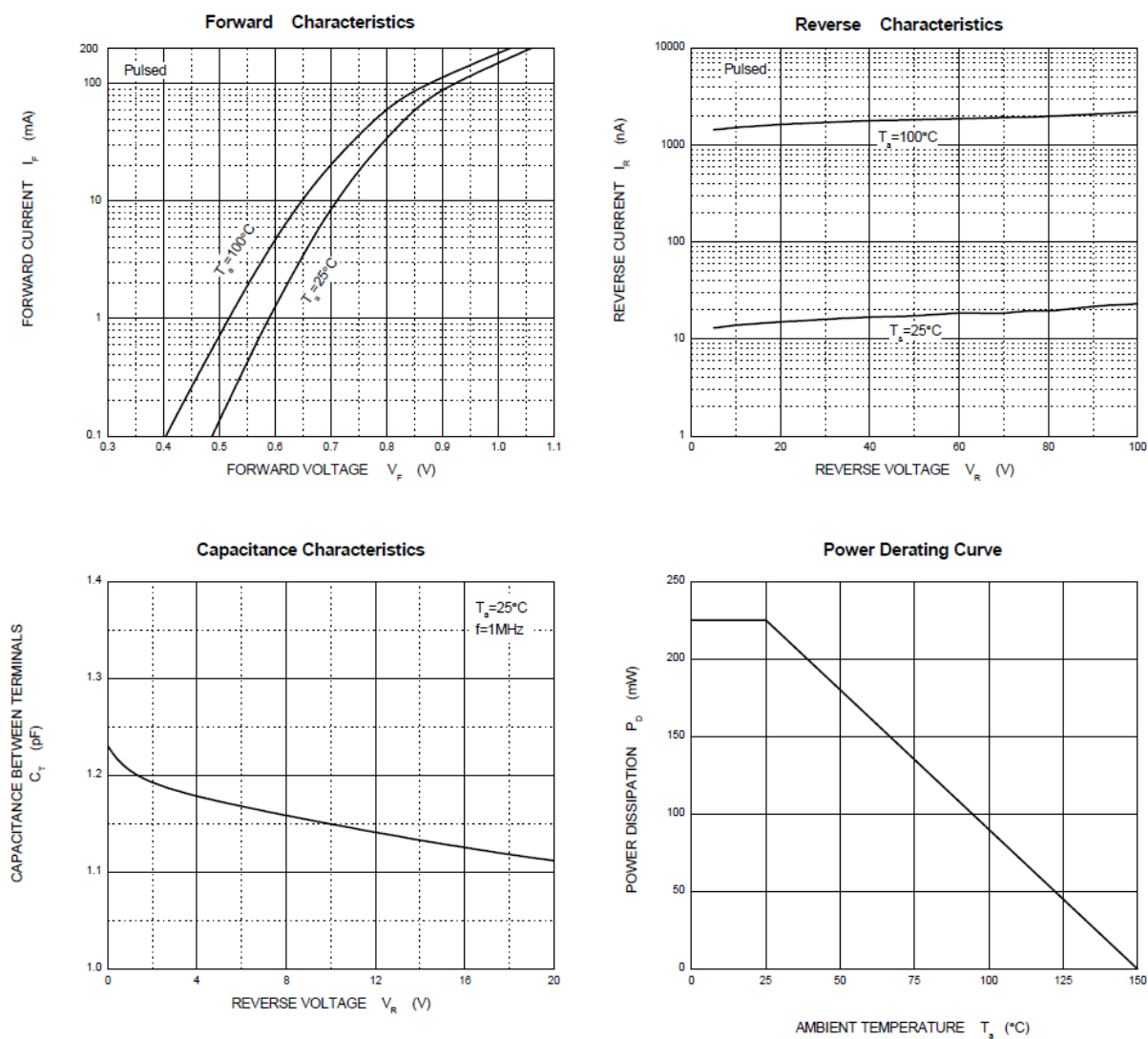
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
Reverse Voltage	V_R	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
RMS Reverse Voltage	$V_R (RMS)$	53	V
Average Rectified Output Current	I_o	200	mA
Power Dissipation	P_d	225	mW
Non-Repetitive Peak Forward Surge Current @ t =8.3ms	I_{FSM}	2	A
Operating junction temperature	T_j	150	℃
Storage temperature range	T_s	-55-+150	℃
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	556	℃/W

Valid provided that electrodes are kept at ambient temperature.

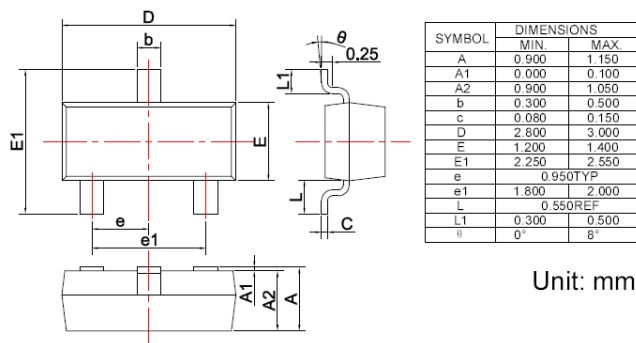
电特性 **Electrical Characteristics** (Ratings at 25℃ ambient temperature unless otherwise specified).

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V(BR)	反向电压 Reverse Voltage	IR=100uA	100		V
IR	反向漏电流 Reverse Leakage Current	VR=100V	---	3.0	uA
		VR=50V	---	1	uA
VF	正向电压 Forward Voltage	IF=1mA	0.55	0.7	V
		F=10mA	0.67	0.82	
		F=100mA	0.75	1.10	
TRR	反向恢复时间 Reverse Recovery Time	IF= IR=10mA	---	4	nS
		VR=6V,RL=100Ω			
		IRR=0.1 X IR			
CT	结电容 Capacitance	VR=0V, f=1MHZ	---	2	pF

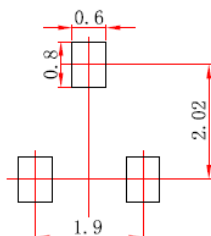
Typical Characteristics



SOT-23 PACKAGE OUTLINE (Plastic surface mounted package)



焊盘设计参考 Precautions: PCB Design (Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)



Note:
 1. Controlling dimension; In millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.

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