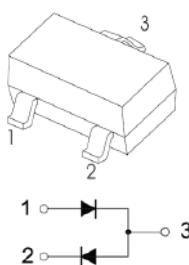


**SOT-23**

**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°C 除非另有规定)**
**Maximum Ratings & Thermal Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified.)

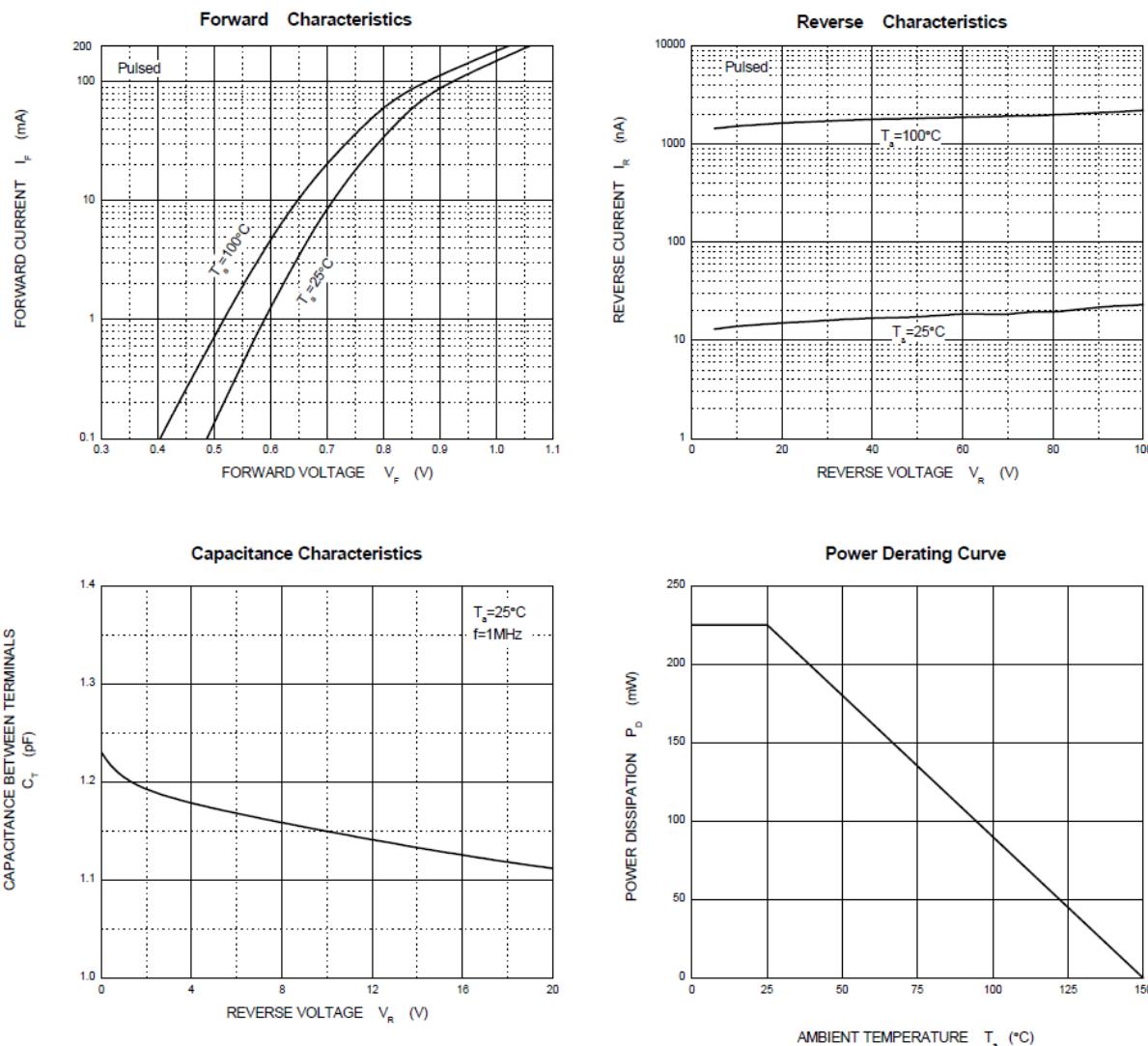
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
Reverse Voltage	V <sub>R</sub>	100	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
RMS Reverse Voltage	V <sub>R</sub> (RMS)	53	V
Average Rectified Output Current	I <sub>O</sub>	200	mA
Power Dissipation	P <sub>d</sub>	225	mW
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I <sub>FSM</sub>	2	A
Operating junction temperature	T <sub>j</sub>	150	°C
Storage temperature range	T <sub>s</sub>	-55~+150	°C
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	556	°C/W

Valid provided that electrodes are kept at ambient temperature.

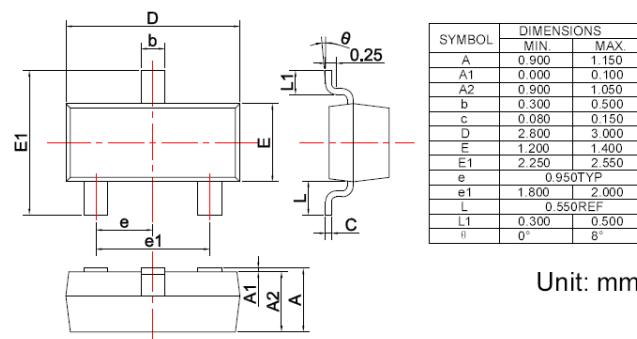
**电特性 Electrical Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified).

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 F=10mA F=100mA	0.55 0.67 0.75	0.7 0.82 1.10	V
		IF= IR=10mA VR=6V, RL=100Ω IRR=0.1 X IR	---	4	nS
CT	结电容 Capacitance	VR=0V, f=1MHZ			
			---	2	pF

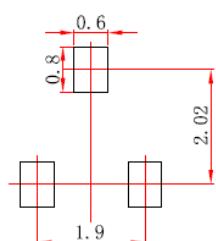
### Typical Characteristics



### 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:  $\pm 0.05$  mm.  
3. The pad layout is for reference purposes only.

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