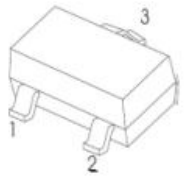
SOT-23 贴片塑封二极管
200mW SOT-23 Fast Switching Diode

SOT-23



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特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 开关速度快。Extremely Fast Switching Speed

机械数据 Mechanical Data

- 封装：SOT-23 封装SOT-23 Small Outline Plastic Package
- 极性：色环端为负极Polarity: Color band denotes cathode end
- 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.)

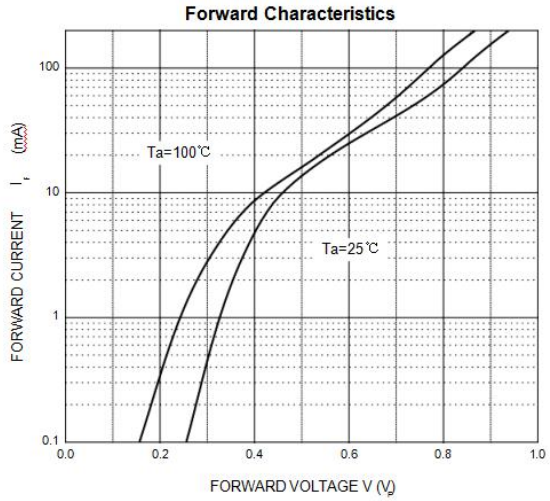
参 数 Parameters	符号Symbol	数值 Value	单位Unit
反向电压Reverse Voltage	VR	40	V
反向峰值电压Peak Repetitive Reverse Voltage	VRRM	40	V
功率消耗Power Dissipation	Pd	200	mW
工作结温Operating junction temperature	Tj	125	℃
存储温度Storage temperature range	Ts	-55-+150	℃
热阻抗Thermal Resistance from Junction to Ambient	RθJA	500	℃/W
平均整流电流Average Rectified Current	IO	200	mA
正向(不重复)浪涌电流Non repetitive Peak Forward Surge Current @ tp=8.3ms; TA=25℃	IFSM	600	mA

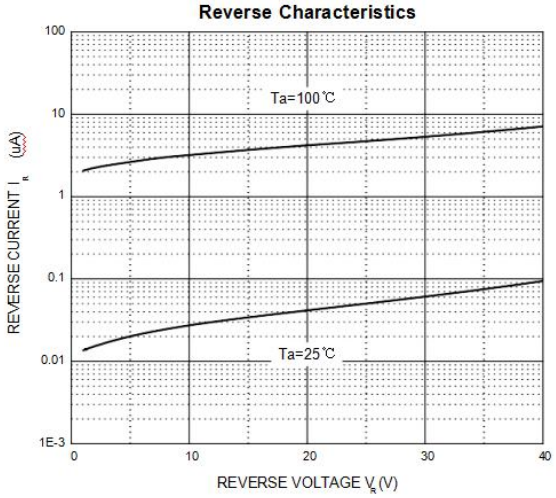
Valid provided that electrodes are kept at ambient temperature.

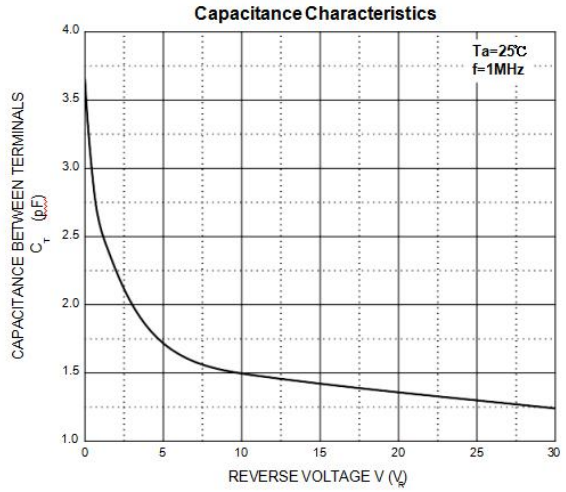
电 特 性 Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

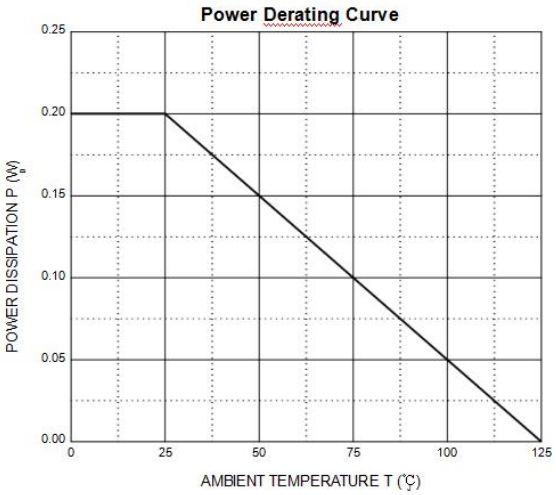
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V(BR)	反向电压 Reverse Voltage	IR=10uA	40		V
IR	反向漏电电流 Reverse Leakage Current	VR=30V	---	200	nA
VF	正向电压 Forward Voltage	IF=1.0mA	---	0.38	V
		IF=40mA	---	1.0	
TRR	反向恢复时间 Reverse Recovery Time	IF= IR=10mA	---	5	nS
		RL=100Ω			
		IRR=0.1 X IR			
CT	结电容 Capacitance	VR=0V, f=1MHZ	---	5	pF

Typical Characteristics

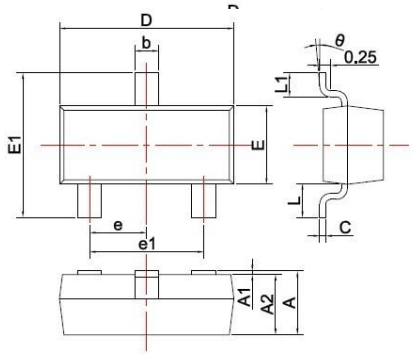








SOT-23 PACKAGE OUTLINE Plastic surface mounted package

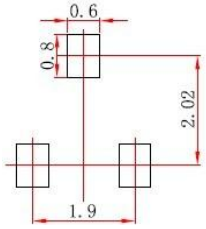


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

SIONS
MAX.
1.150
0.100
1.050
0.500
0.150
3.000
1.400
2.550
50TYP
2.000
50REF
0.500
8°

Unit: mm nit: mm

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:± 0.05mm.
3.The pad layout is for reference purposes only.