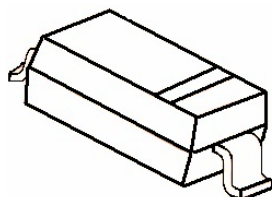


SOD-123



MARKING: T6

特征 Features

- 开关速度小于 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 最大功率耗散 500mW; Power Dissipation of 500mW
- 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: SOD-123 封装 SOD-123 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 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.)

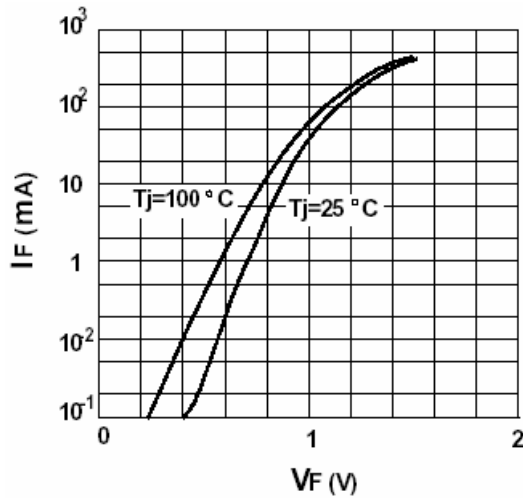
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V _R	75	V
反向峰值电压 Peak Reverse Voltage	V _{RM}	100	V
功率消耗 Power Dissipation	P _d	500	mW
工作结温 Operating junction temperature	T _j	150	℃
存储温度 Storage temperature range	T _s	-55-+150	℃
反向工作电压 Working Inverse Voltage	W _{IV}	75	V
平均整流电流 Average Rectified Current	I _o	150	mA
正向(不重复)电流 Non-repetitive Peak Forward Current	I _{FM}	300	mA
正向(不重复)浪涌电流 Peak Forward Surge Current @tp=1us; TA=25℃	I _{FSM}	2.0	A

Valid provided that electrodes are kept at ambient temperature.

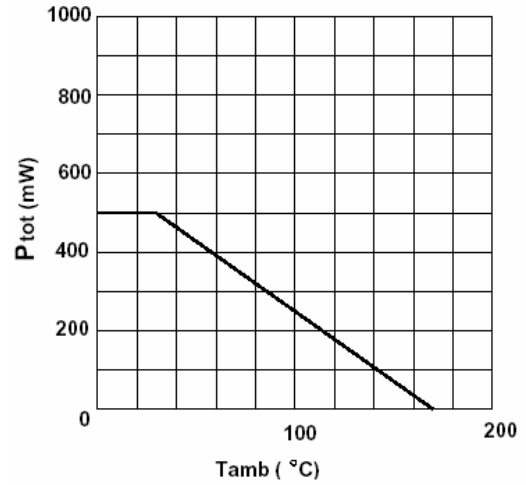
电特性 Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
BV	反向击穿电压	IR=100uA	100		V
	Breakdown Voltage	IR=5uA	75		
IR	反向漏电流	VR=20V	---	25	nA
	Reverse Leakage Current	VR=75	---	1	uA
VF	正向电压 Forward Voltage	IF=150mA	---	1.25	V
		IF=50mA	---	1.00	
		IF=10mA	---	0.855	
		IF=1.0mA	---	0.715	
TRR	反向恢复时间	IF= 10mA, IR=60mA	---	4	nS
	Reverse Recovery Time	RL=100Ω, IRR=1mA			
C	结电容	VR=0V, f=1MHZ	---	2	pF
	Capacitance				

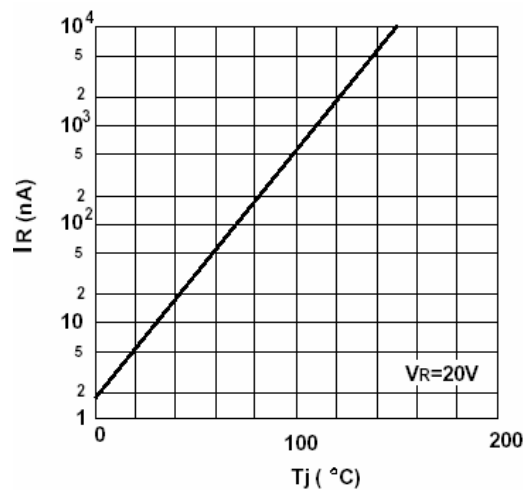
Forward characteristics



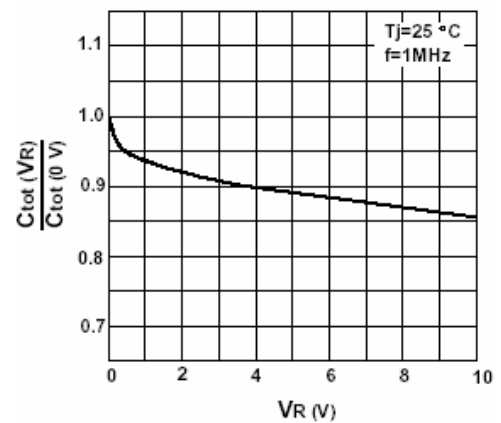
Admissible power dissipation versus ambient temperature



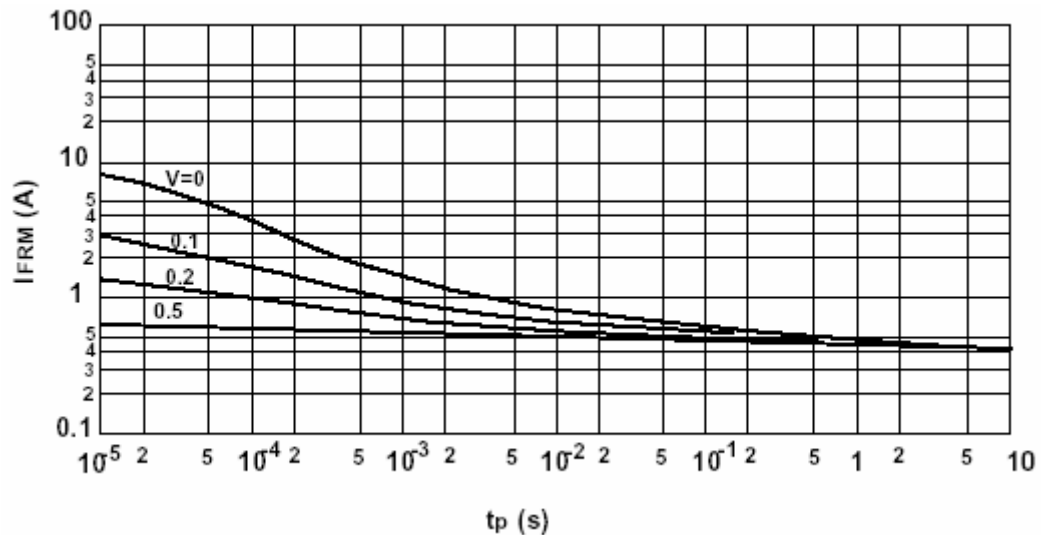
Leakage current versus junction temperature



Reverse capacitance VS. reverse voltage

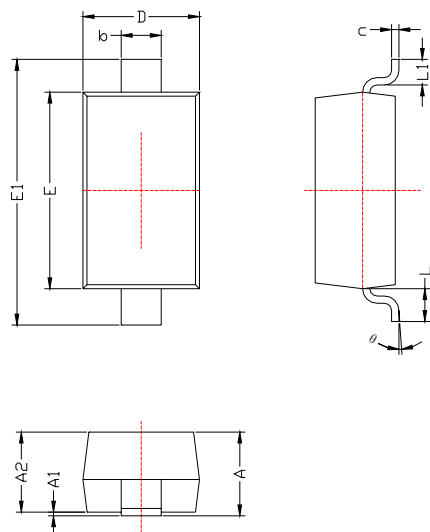


Admissible repetitive peak forward current VS. pulse duration



SOD-123 PACKAGE OUTLINE

Plastic surface mounted package

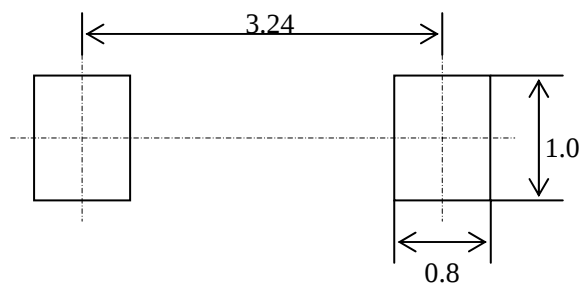


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

焊盘设计参考

Precautions: PCB Design

Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs



中心距: 3.24

脚 宽: 0.55

焊盘宽: 1.00

脚 长: 0.50

焊盘长: 0.80

技术要求:

1, 塑封体尺寸: 2.70 X 1.60

2: 未注公差为: ±0.05

3, 所有单位: mm

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