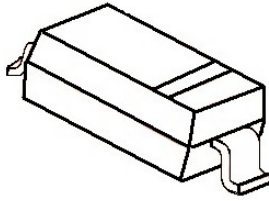


SOD-123

**500mW SOD-123 Fast Switching Diode**



MARKING:



**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°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
反向峰值电压 Peak Reverse Voltage	V <sub>RM</sub>	100	V
功率消耗 Power Dissipation	P <sub>d</sub>	500	mW
工作结温 Operating junction temperature	T <sub>j</sub>	150	°C
存储温度 Storage temperature range	T <sub>STG</sub>	-65-+150	°C
热阻 Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	250	°C/W
	R <sub>θJC</sub>	200	°C/W
平均整流电流 Average Rectified Current	I <sub>o</sub>	150	mA
正向(不重复)电流 Non-repetitive Peak Forward Current	I <sub>FM</sub>	300	mA
正向(不重复)浪涌电流 Peak Forward Surge Current	I <sub>FSM</sub>	2.0	A

@tp=1us; TA=25°C

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	
BV	反向击穿电压 Breakdown Voltage	IR=100uA	100		V
IR	反向漏电流 Reverse Leakage Current	VR=20V	---	25	nA
		VR=20V Tj=150°C	---	50	uA
		VR=75	---	5	uA
VF	正向电压 Forward Voltage	IF=10mA	---	1.00	V
		IF=100mA	---	1.25	
TRR	反向恢复时间 Reverse Recovery Time	IF = IR = 10mA,	---	4	nS
		Irr=0.1XIR			
		RL=100Ω			
C	结电容 Capacitance	VR=0V, f=1MHZ	---	4	pF

