

SOT-23**开关二极管
Switching Diode**

产品特性总结Product Summary	
VR@100uA	>85V
IR@75V	<5nA
trr	<3uS

印字Marking:

JX 或根据客户要求打印

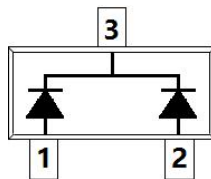
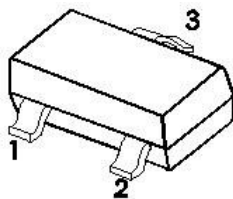
JX or According to customer requirement

特征 Features

- 极低的漏电流Very Low Leakage Current
- 低反向恢复时间Low Reverse Recovery Time
- 无卤封装Halogen-free Package
- 表贴型封装Surface Mount Package
- 环氧树脂UL易燃等级Epoxy UL: 94V-0

应用 Applications

- 低漏电应用Low Leakage Current Applications
- 高速开关应用High Speed Switch Applications

等效电路Equivalent circuit**脚位定义Pin Definition****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
反向电压 Reverse Voltage	VR	85	V
尖峰反向电压 Working Peak Reverse Voltage	VRM		
RMS反向电压 RMS Reverse Voltage	VR(RMS)	60	V
正向持续电流 Forward Continuous Current	IFM	125	mA
正向重复电流 Repetitive Peak Forward Current	IFRM	500	mA
正向(不重复)浪涌电流 Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0ms @ t = 1.0s	IFSM	4.0	A
		1.0	
		0.5	
功率耗散 Power Dissipation (Note 1)	Pd	150	mW
结环热阻 Thermal Resistance Junction to Ambient Air (Note 1)	RθJA	833	°C/W
工作与储存温度范围 Operating and Storage Temperature Range	Tj, TSTG	-65 to+150	°C

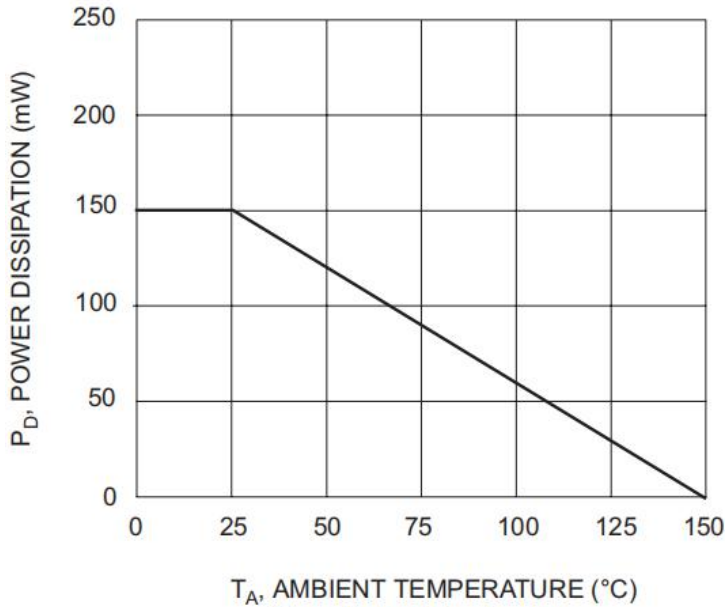
电特性 (TA = 25°C 除非另有规定)**Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)**

参数 Parameters	符号 Symbol	测试条件 Test Condition	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
反向电压 Reverse Breakdown Voltage (Note 3)	V(BR)R	IR = 100uA	85	—	—	V
正向电压 Forward Voltage	VF	IF = 1.0mA	—	—	0.9	V
		IF = 10mA	—	—	1.0	
		IF = 50mA	—	—	1.1	
		IF = 150mA	—	—	1.25	
反向漏电流 Leakage Current (Note 3)	IR	VR = 75V VR = 75V, Tj = 150°C	—	—	5.0 80	nA
总电容 Total Capacitance	CT	VR = 0, f = 1.0MHz	—	2	—	pF
反向恢复时间 Reverse Recovery Time	trr	IF = IR = 10mA, ITr = 0.1xIR, RL = 100 Ω	—	—	3.0	uS

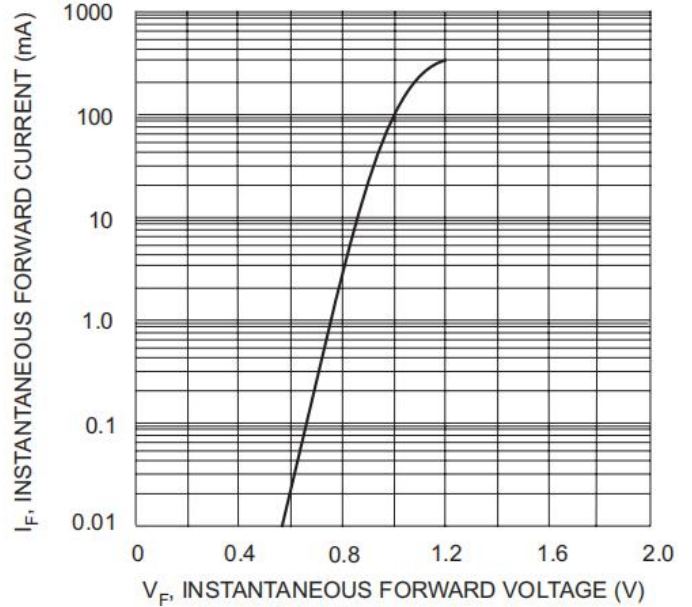
*Notes :

1. Device mounted on FR-4 PC board with recommended pad layout.
2. No purposefully added lead.
3. Short duration test pulse used to minimize self-heating effec..

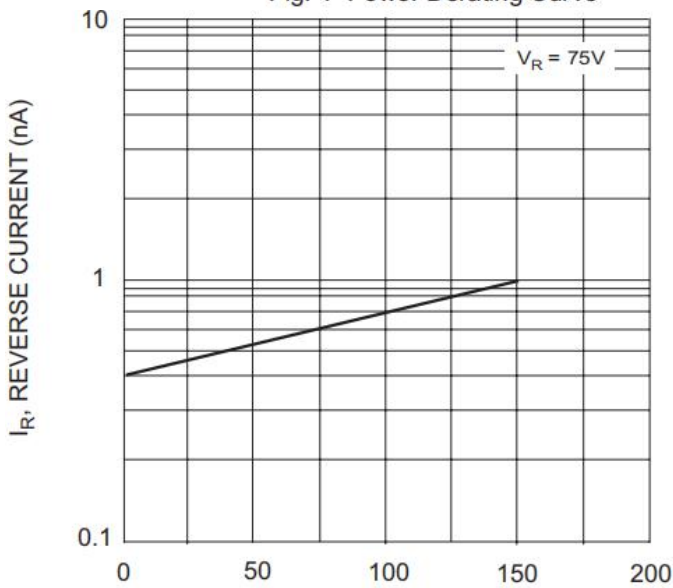
典型特性曲线 Typical characteristics



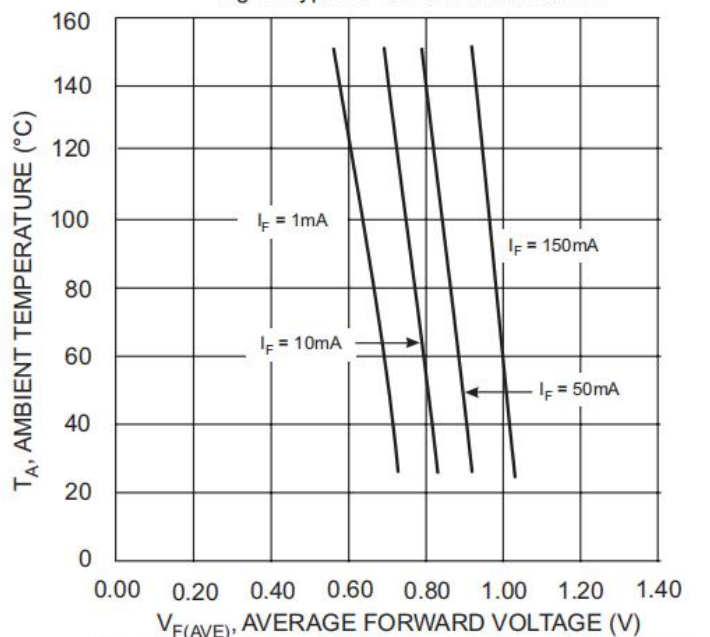
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics

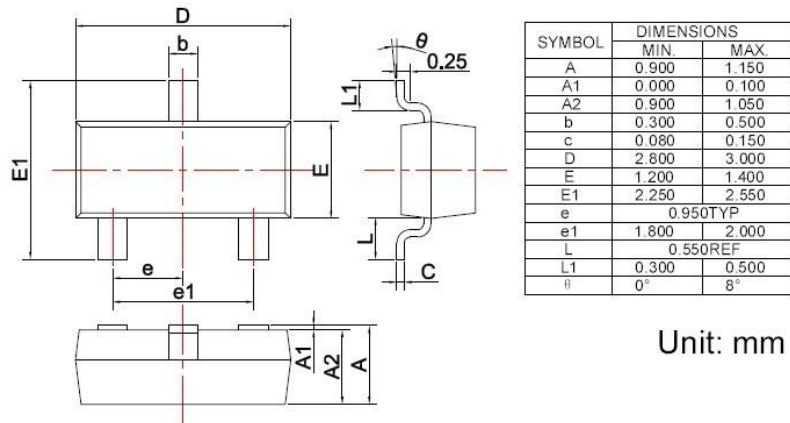


T_A , AMBIENT TEMPERATURE (°C)
Fig. 3 Typical Reverse Characteristics

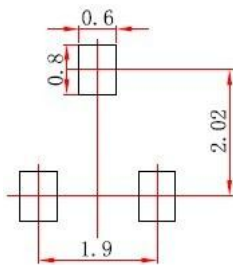


T_A , AMBIENT TEMPERATURE (°C)
 $V_{F(AVE)}$, AVERAGE FORWARD VOLTAGE (V)
Fig. 4 Typical Forward Voltage vs Ambient Temperature

封装外形图 SOT-23 Package Outline Dimensions



焊盘设计参考Precautions: PCB Design



Note:

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