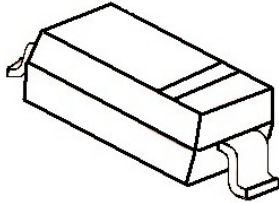


SOD-323

SOD-323 贴片塑封二极管

200mW SOD-323 Low Leakage Switching Diode



MARKING: PA

特征 Features

- 开关速度小于 3.0uS; Fast Switching Device (TRR <3.0uS)
- 最大功率耗散 200mW; Power Dissipation of 200mW
- 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-323 封装 SOD-323 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
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Power Dissipation	P _d	200	mW
Operating junction temperature	T _j	-55-+150	℃
Storage temperature range	T _s	-55-+150	℃
Thermal Resistance from Junction to Ambient	R _{θJA}	625	℃/W
Continuous Forward Current	I _F	200	mA
Non-repetitive Peak Forward Surge Current @tp=1us; TA=25℃	I _{FSM}	2.0	A

Note: FR-5 Board=1.0*0.75*0.062 in.

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	Typ	Max	
V(BR)	Reverse Voltage	IR=100uA	75			V
IR	Reverse Leakage Current	VR=75V	---		5	nA
		VR=75 Tj=150℃	---		80	nA
VF	Forward Voltage	IF=1.0mA	---		0.90	V
		IF=10mA	---		1.00	
		IF=50mA	---		1.10	
		IF=150mA	---		1.25	
TRR	Reverse Recovery Time	IF= IR=10mA RL=100Ω	---		3.0	uS
CT	Capacitance	VR=0V, f=1MHZ	---		2.0	pF

Typical Characteristics

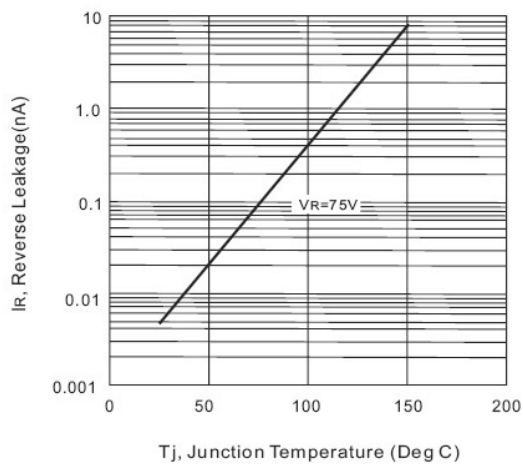


Fig. 1 Reverse Leakage vs. Junction Temperature

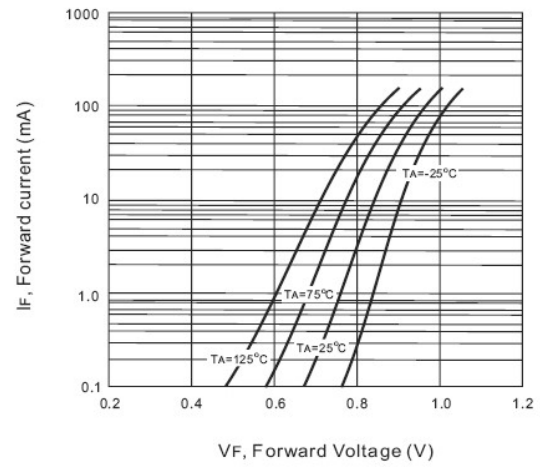


Fig. 2 Forward Current vs. Forward Voltage

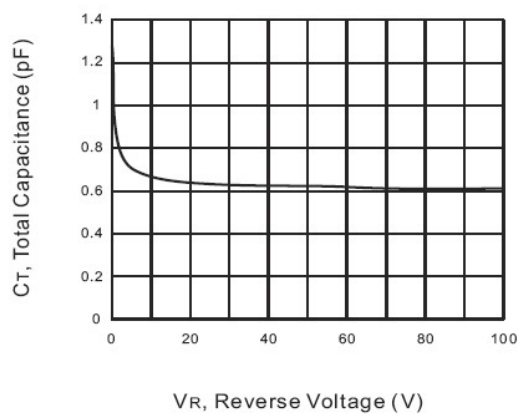
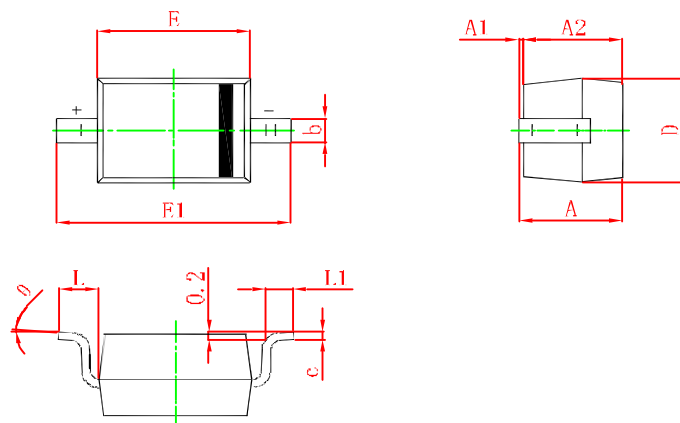


Fig. 3 Total capacitance vs. Reverse Voltage

SOD-323 PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°