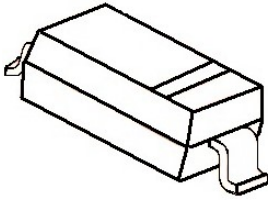


SOD-323

200mW SOD-323 Fast Switching Diode



MARKING: 5D

**特征 Features**

- 开关速度小; Fast Switching Device
- 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°C 除非另有规定)

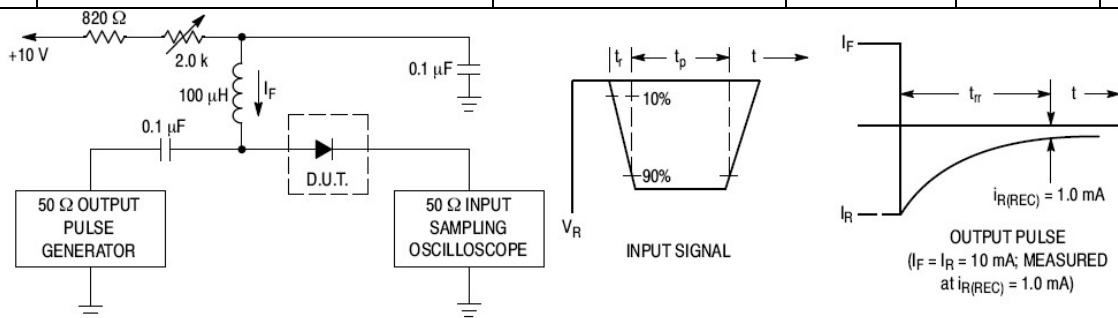
**Maximum Ratings & Thermal Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V <sub>R</sub>	100	V
功率消耗 Power Dissipation	P <sub>d</sub>	200	mW
工作结温 Operating junction temperature	T <sub>j</sub>	150	°C
存储温度 Storage temperature range	T <sub>s</sub>	-50-+150	°C
热阻 Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	635	°C/W
正向(不重复)电流 Non-repetitive Peak Forward Current	I <sub>FM</sub>	500	mA
正向(不重复)浪涌电流 Peak Forward Surge Current @tp=1us; TA=25°C	I <sub>FSM</sub>	2.0	A

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	
<b>BV</b>	反向击穿电压 Breakdown Voltage	IR=100uA	100		V
<b>IR</b>	反向漏电流 Reverse Leakage Current	VR=20V	---	25	nA
		VR=75	---	5	uA
<b>VF</b>	正向电压 Forward Voltage	IF=10mA	---	1.00	V
<b>TRR</b>	反向恢复时间 Reverse Recovery Time	IF= IR=10mA(Figure 1)	---	4	nS
<b>CT</b>	结电容 Capacitance	VR=0V, f=1MHZ	---	4	pF



- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I<sub>F</sub>) of 10 mA.  
 2. Input pulse is adjusted so I<sub>R(peak)</sub> is equal to 10 mA.  
 3. t<sub>p</sub> ≫ t<sub>rr</sub>

Figure 1. Recovery Time Equivalent Test Circuit

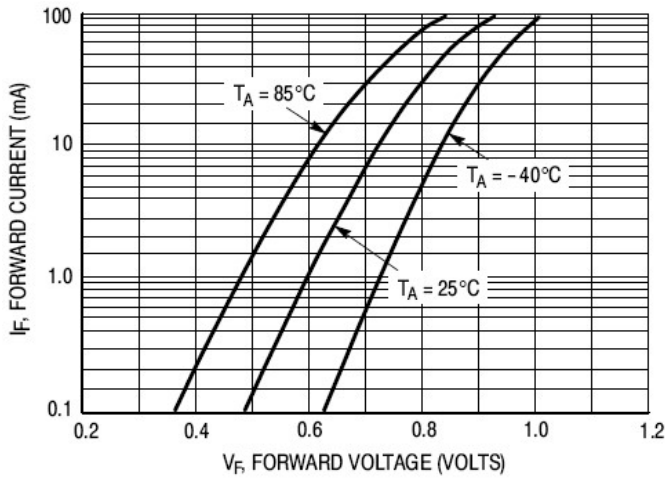


Figure 2. Forward Voltage

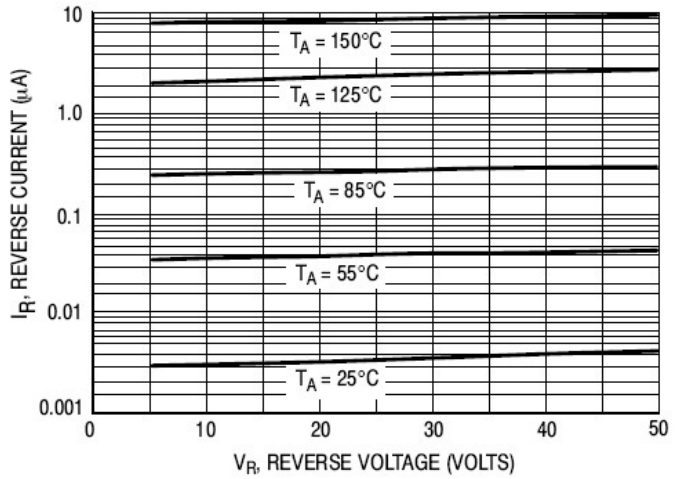


Figure 3. Leakage Current

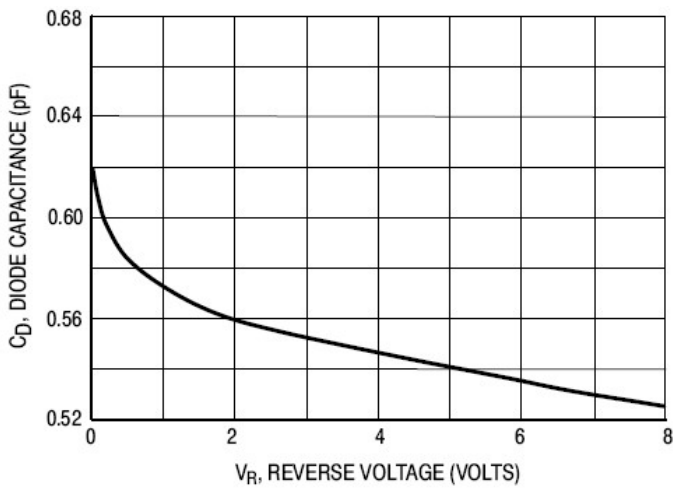
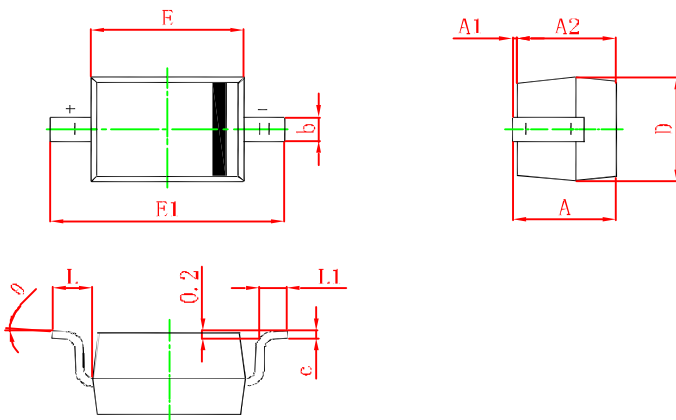


Figure 4. Capacitance

**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°