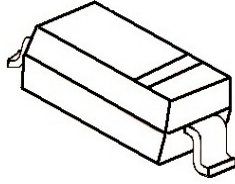


SOD-123



Marking: SD

特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop

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)

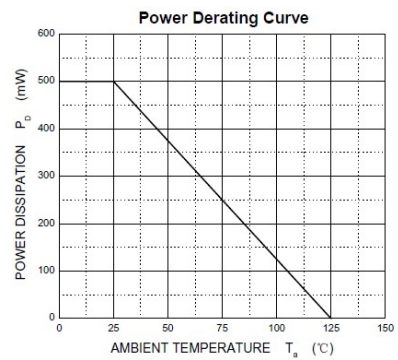
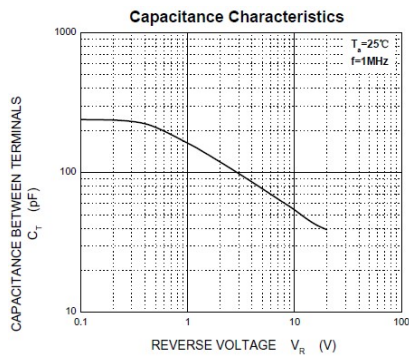
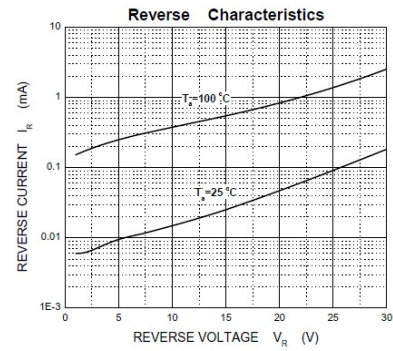
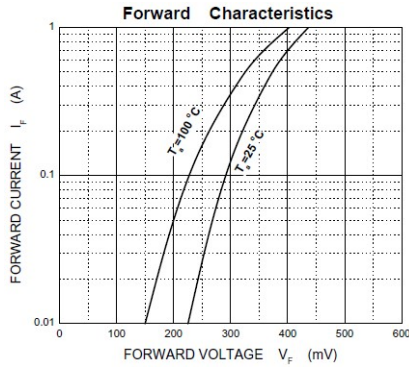
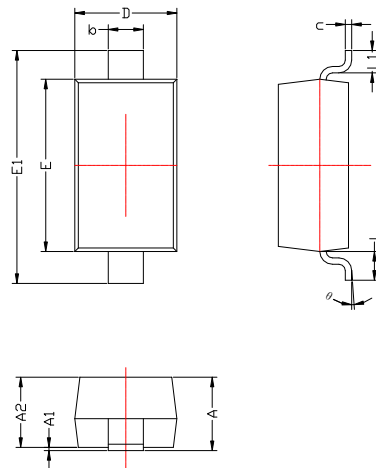
Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	B0520LWQ-7-F-CN	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	VRRM	20	V
最大均方根电压 Maximum RMS voltage	VRMS	14	V
最大直流阻断电压 Maximum DC blocking voltage	VDC	20	V
最大正向平均整流电流 Maximum average forward rectified current	IFM	0.5	A
峰值正向浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	IFSM	5.5	A
典型热阻 Typical thermal resistance	RθJA	200	℃/W
功率消耗 Power Dissipation	PD	500	mW
存储温度 Storage temperature range	TSTG	-50-+150	℃
Voltage rate of change	Dv/dt	1000	V/uS

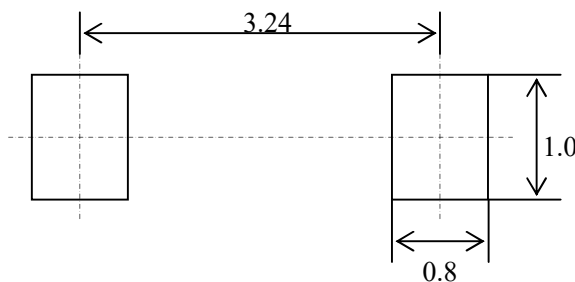
电特性 (TA = 25℃ 除非另有规定)

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

参数 Parameters	符号 Symbol	测试条件 Test conditions	B0520LWQ-7-F-CN	单位 Unit
最大正向电压 Maximum forward voltage	VF	IF = 0.1A	0.330	V
		IF = 0.5A	0.385	
		IF = 1.0A	---	
最大反向电压 Maximum reverse breakdown voltage	VR	IR=250uA	20	V
		IR=200uA	---	
		IR=20.0uA	---	
最大反向电流 Maximum reverse current	IR	VR=10V	75	uA
		VR=15V	---	
		VR=20V	250	
		VR=30V	---	
		VR=40V	---	
Capacitance between terminals	CT	VR = 0V, f = 1MHz	---	pF

特性曲线 Characteristic Curves

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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