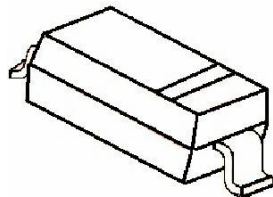


SOD-123



Marking: S8

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.)

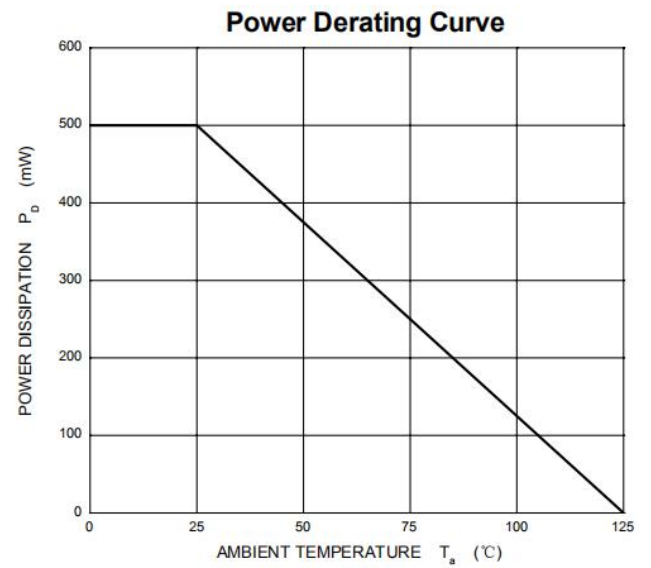
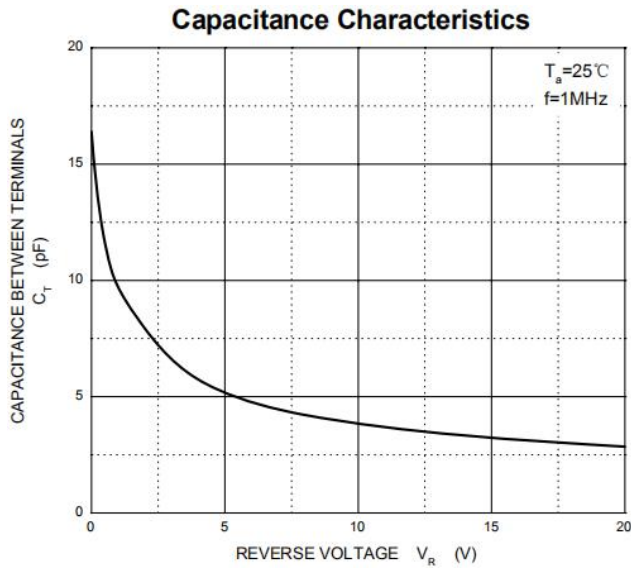
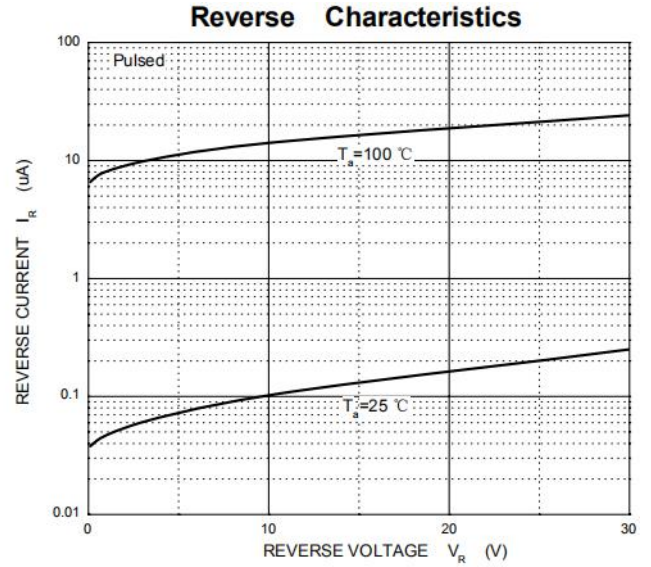
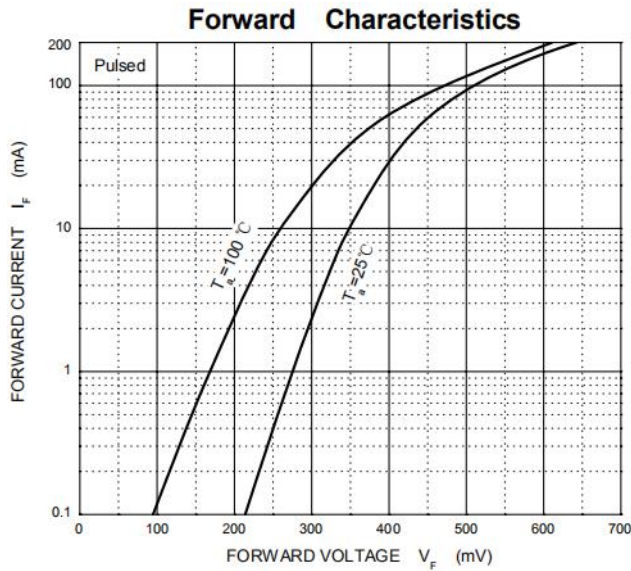
参数 Parameters	符号 Symbol	BAT43W-E3-08-CN	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	VRRM	30	V
最大均方根电压 Maximum RMS voltage	VRMS	21	V
最大直流阻断电压 Maximum DC blocking voltage	VDC	30	V
最大正向平均整流电流 Maximum average forward rectified current	IFM	200	mA
峰值重复正向电流 Repetitive Peak Forward Current @t<1.0s	IFRM	500	mA
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	4.0	A
典型热阻 Typical thermal resistance	RθJA	200	℃/W
功率消耗 Power Dissipation	PD	500	mW
结温 Junction Temperature	Tj	125	℃
存储温度 Storage temperature range	TSTG	-50-+150	℃

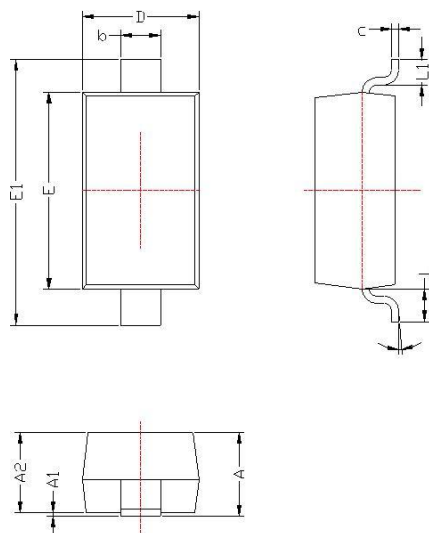
电特性 (TA = 25℃ 除非另有规定)

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

参数 Parameters	符号 Symbol	测试条件 Test conditions	Min	Typ	Max	单位 Unit
最大正向电压 Maximum forward voltage	VF	IF = 200mA			1.0	V
	VF	IF = 2.0mA	0.26		0.33	
	VF	IF = 15mA			0.45	
最大反向电压 Maximum reverse breakdown voltage	VR	IR=10uA	30			V
最大反向电流 Maximum reverse current	IR	VR=25V			0.5	uA
典型结电容 Type junction capacitance	Cj	VR = 1.0V, f = 1MHz			10	pF
反向恢复时间 Reverse recovery time	trr	IF=IR=10mA Irr=0.1xIR,RL=100 Ω			5	nS

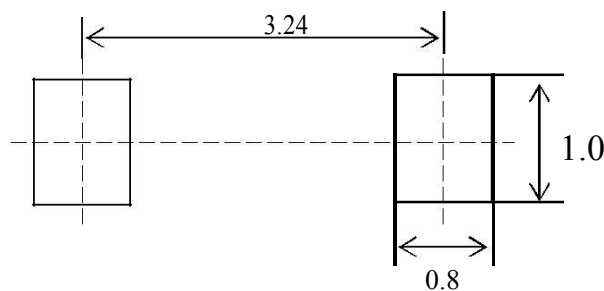
Typical Characteristics



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

NOTICE

The information presented in this document is for reference only. Involving product optimization and productivity improvement, ChipNobo reserves the right to adjust product indicators and upgrade some technical parameters. ChipNobo is entitled to be exempted from liability for any delay or non-delivery of the information disclosure process that occurs.

本文件中提供的信息仅供参考。涉及产品优化和生产效率改善，ChipNobo 有权调整产品指标和部分技术参数的升级，所出现信息披露过程存在延后或者不能送达的情形，ChipNobo 有获免责权。

The product listed herein is designed to be used with residential and commercial equipment, and do not support sensitive items and specialized equipment in areas where sanctions do exist. ChipNobo Co., Ltd or anyone on its behalf, assumes no responsibility or liability for any damages resulting from improper use.

此处列出的产品旨在民用和商业设备上使用，不支持确有制裁地区的敏感项目和特殊设备，ChipNobo 有限公司或其代表，对因不当使用而造成的任何损害不承担任何责任。

For additional information, please visit our website <http://www.chipnobo.com>, or consult your nearest Chipnobo sales office for further assistance.

欲了解更多信息，请访问我们的网站 <http://www.chipnobo.com>，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。