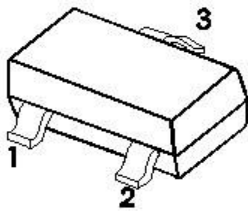


SOT-23

SOT-23 Plastic-Encapsulate Schottky Barrier Diode

特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 开关速度快。Extremely Fast Switching Speed



机械数据 Mechanical Data

- 封装: SOT-23 封装 SOT-23 Small Outline Plastic Package
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

BAS40	BAS40-04	BAS40-05	BAS40-06
MARKING: 43•	MARKING: 44	MARKING: 45	MARKING: 46

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.)

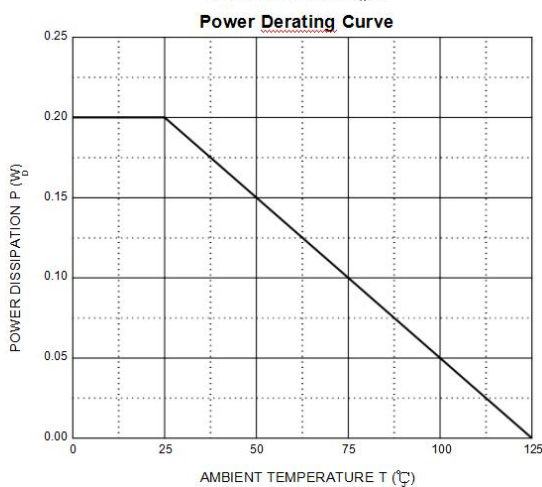
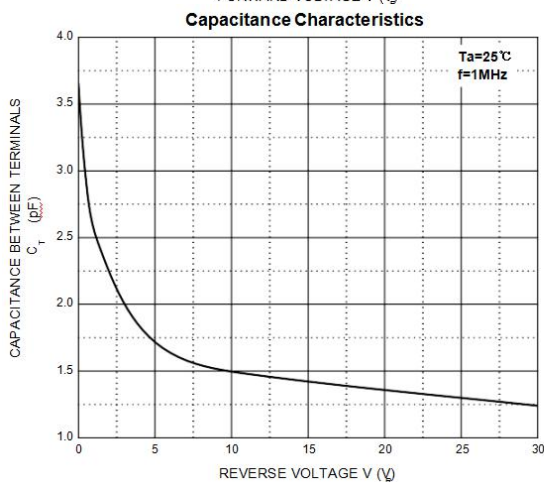
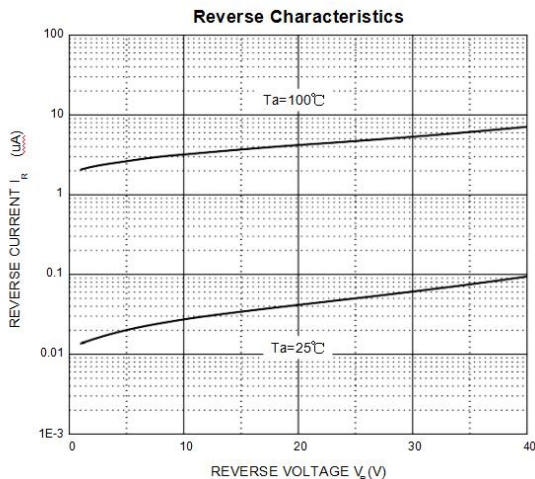
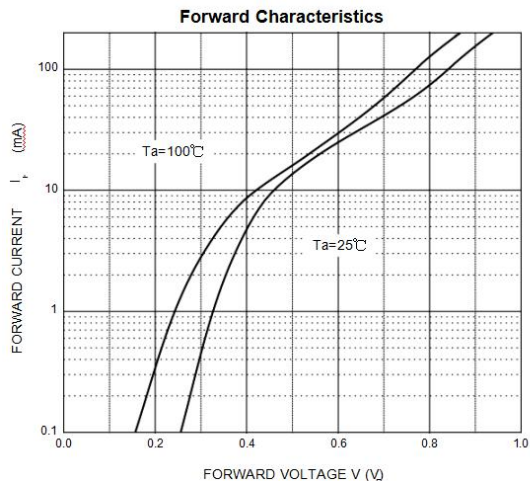
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	VR	40	V
反向峰值电压 Peak Repetitive Reverse Voltage	VRRM	40	V
功率消耗 Power Dissipation	Pd	200	mW
典型热阻 Typical thermal resistance	RθJA	500	℃/W
结温 Junction Temperature	Tj	125	℃
存储温度 Storage temperature range	TSTG	-55-+150	℃
最大正向平均整流电流 Maximum average forward rectified current	IFM	200	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	600	mA

电特性 (TA = 25℃ 除非另有规定)

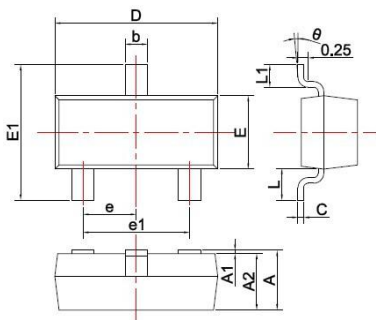
Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V(BR)	反向电压 Reverse Voltage	IR=10uA	40		V
IR	反向漏电流 Reverse Leakage Current	VR=30V	---	200	nA
VF	正向电压 Forward Voltage	IF=1.0mA	---	0.38	V
		IF=40mA	---	1.0	
TRR	反向恢复时间 Reverse Recovery Time	IF= IR=10mA	---	5	nS
		RL=100Ω			
		IRR=0.1 X IR			
CT	结电容 Capacitance	VR=0V, f=1MHZ	--	5	pF

Typical Characteristics



SOT-23 PACKAGE OUTLINE Plastic surface mounted package



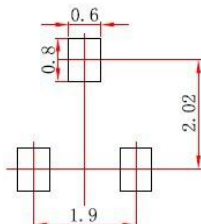
SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950 TYP	
e1	1.800	2.000
L	0.550 REF	
L1	0.300	0.500
θ	0°	8°

Unit: mm

焊盘设计参考

Precautions: PCB Design

Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



- Note:
1. Controlling dimension: In millimeters.
 2. General tolerance: ± 0.05mm.
 3. The pad layout is for reference purposes only.