

1.主要用途与主要特点

1.1 主要用途

小功率稳压管主要用于移动电话,手持设备和高密度电脑主板等产品的电路电压调整。

1.2 主要特点

- 适合高密度应用的小型化封装尺寸
- 5%的高精度稳压电压稳定性
- 高可靠性芯片和封装工艺

2. 封装管芯示意图





SOD-123

3. 电参数极限值

除非另有规定, Tamb= 25℃

13 11 23 11 7907C7 Tamb 10 0			
参数名称	符号	额定值	单位
正向电压(IF=10mA)	VF	0.85	V
总耗散功率 (FR-5 版,注1)	P_D	500	mW
热阻 (FR-5 Board, 注 1)	$R_{ heta JA}$	556	°C/W
热阻(AL基板,注2)	$R_{ heta JA}$	417	°C/W
最高工作结温	T_{j}	150	$^{\circ}$
贮存温度	$T_{ m stg}$	-55~150	$^{\circ}$

注 1:FR-5=1.0*0.75*0.62 in.

注 2:Alumina=0.4*0.3*0.024 in., 99.5% alumina

4. 电参数特性表

Туре	V _Z @I _{ZT} =5mA		ZZ@ I _{ZT} =1mA	ZZ@ ZZ@ I _{ZT} =5mA I _{ZT} =20mA		I _R	V_{R}	Typical Temperature Coefficient @I _Z =5mA		
	Min	Nom	Max	Ω	Ω	Ω	μA	V	Min	Max
BZT52C13-E3-08	12.35	13	13.65	170	28.5	14.2	0.08	8	7.0	11.0

5. 特性曲线图表

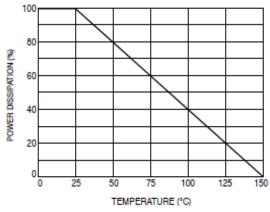
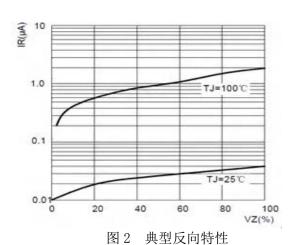


图 1 最大连续功率损耗



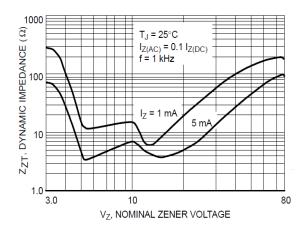


图 3 反向电压与阻抗特性曲线

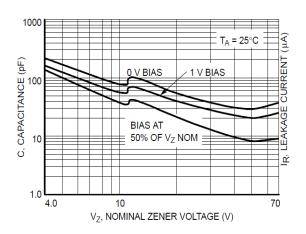
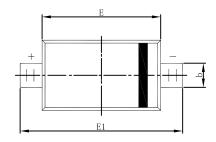
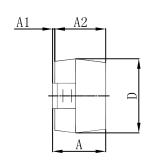


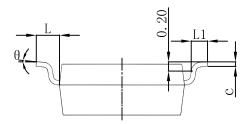
图 4 典型电容特性曲线



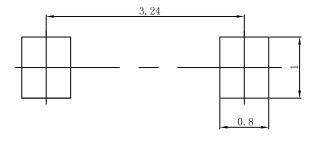
SOD-123 Package Outline Dimensions







Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
Е	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	



Note:

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



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