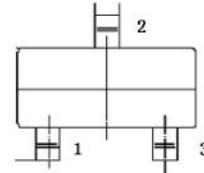


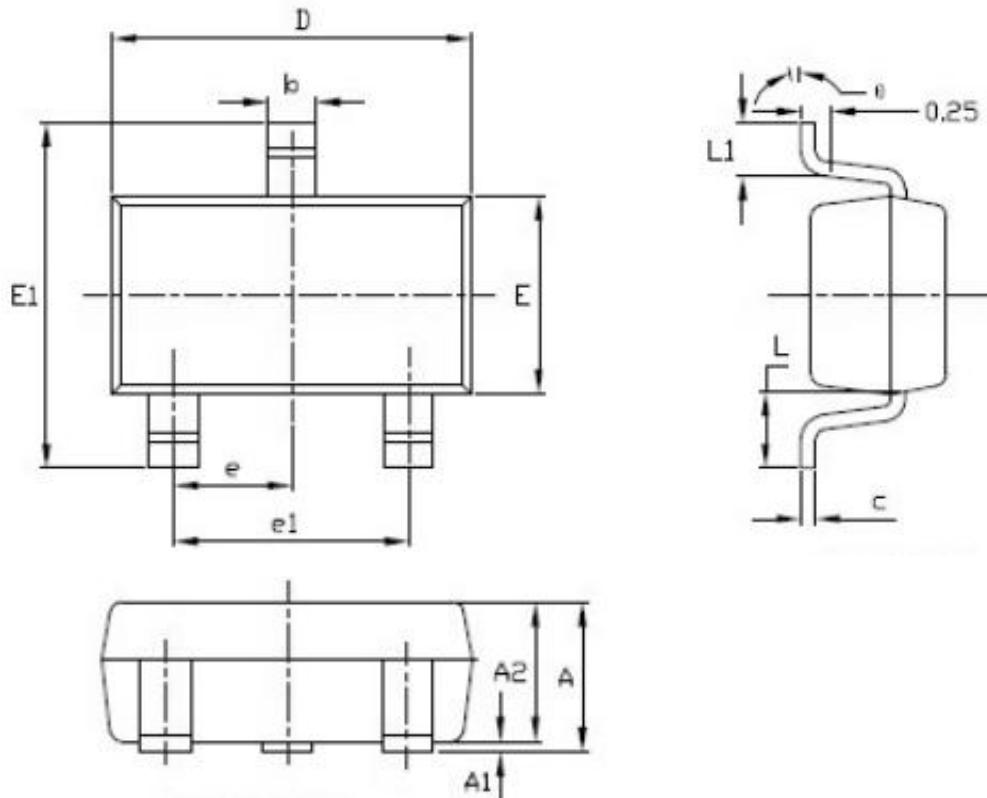
SOT-23-3L Three Terminal Regulator 三端稳压 IC**■Features 特点****Low Dropout Voltage 低落差电压**1.V_{ss/Adj} 2.V_o 3.V_i**■Application 应用****PC Motherboard 主板****LCD Monitor 液晶屏****Graphic Card 显卡****Modem 调制解调器****Printer 打印机****■Absolute Maximum Ratings 最大额定值**(T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Input Voltage 输入电压	V _i	15	V
Operating Current 工作电流	I _o	1000	mA
Thermal Resistance Junction-Ambient 热阻	R _{θJA}	250	°C/W
Solder Temperature 焊接温度	T _d	260	°C
Solder Time 焊接时间	T _d	10	s
Operating Ambient Temperature 工作温度	T _A	+85	°C
Junction and Storage Temperature 结温和储藏温度	T _j , T _{stg}	-40 to +125	°C

■ Electrical Characteristics 电特性(V_{IN}≤10V T_J=25°C unless otherwise noted 如无特殊说明)

Characteristic 特性参数	Symbol 符号	Part No. 料号	Test Condition 测试条件	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Reference Voltage 基准电压	V _{RO}	1117-Adj	I _O =10mA V _I -V _O =3.23	1.231	1.250	1.269	V
			10mA≤I _O ≤0.8A 2.75≤V _I -V _O ≤3.25	1.225	1.250	1.275	
Output Voltage 输出电压	V _O	1117-1.8	I _O =10mA V _I =3.8	1.773	1.8	1.827	V
			10mA≤I _O ≤0.8A 3.3≤V _I ≤12	1.764	1.8	1.836	
		1117-2.5	I _O =10mA V _I =4.5	2.463	2.5	2.538	
			10mA≤I _O ≤0.8A 4≤V _I ≤12	2.450	2.5	2.550	
		1117-3.3	I _O =10mA V _I =5.3	3.251	3.3	3.350	
			10mA≤I _O ≤0.8A 4.8≤V _I ≤12	3.234	3.3	3.366	
		1117-5.0	I _O =10mA V _I =7	4.925	5.0	5.075	
			10mA≤I _O ≤0.8A 6.5≤V _I ≤12	4.9	5.0	5.1	
Line Regulation 线性调整率	LNR	1117-Adj	I _O =10mA 1.5≤V _I -V _O ≤12		0.03	0.2	%
		1117-1.8	I _O =10mA 1.5≤V _I -V _O ≤10.2		1	7	mV
		1117-2.5	I _O =10mA 1.5≤V _I -V _O ≤9.5		1	7	
		1117-3.3	I _O =10mA 1.5≤V _I -V _O ≤8.7		1	7	
		1117-5.0	I _O =10mA 1.5≤V _I -V _O ≤7		1	10	
Load Regulation 负载调整率	LDR	1117-Adj	10mA≤I _O ≤0.8A V _I -V _O =1.5		0.2	0.4	%
		1117-1.8				7.2	mV
		1117-2.5				10	
		1117-3.3				13.2	
		1117-5.0				20	
Dropout Voltage	V _D	落差电压	ΔV _R =1% I _O =0.8A		1.2	1.3	V
Adjust Pin Current	I _{adj}	电流调整	I _O =10mA			120	uA
Adjust Current Change	ΔI _{adj}	电流调整率	1.5≤V _I -V _O ≤12 I _O =10mA			5	uA
Min Load Current	I _L	负载电流	V _I =5V V _{adj} =0V			7	mA
Quiescent Current	I _q	静态电流	V _I =V _O +1.25		2	5	mA
Temperature Stability 温度稳定性					0.5		%
Long Term Stability 长期稳定性			TA=125°C 1000hrs		0.3		%
RMS Output Noise(% of Vout)输出噪声			TA=125°C		0.003		%
Thermal Shutdown Hysteresis 热特性					25		°C

■SOT-23-3L Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.450	0.650	0.018	0.026
L1	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°