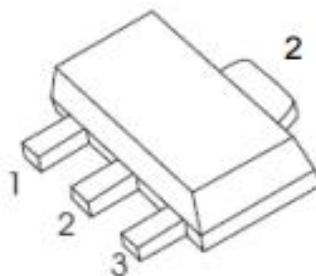


Features 特点

Low Dropout Voltage 低落差电压

1.Vss/Adj 2.Vo 3.Vi

SOT-89



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

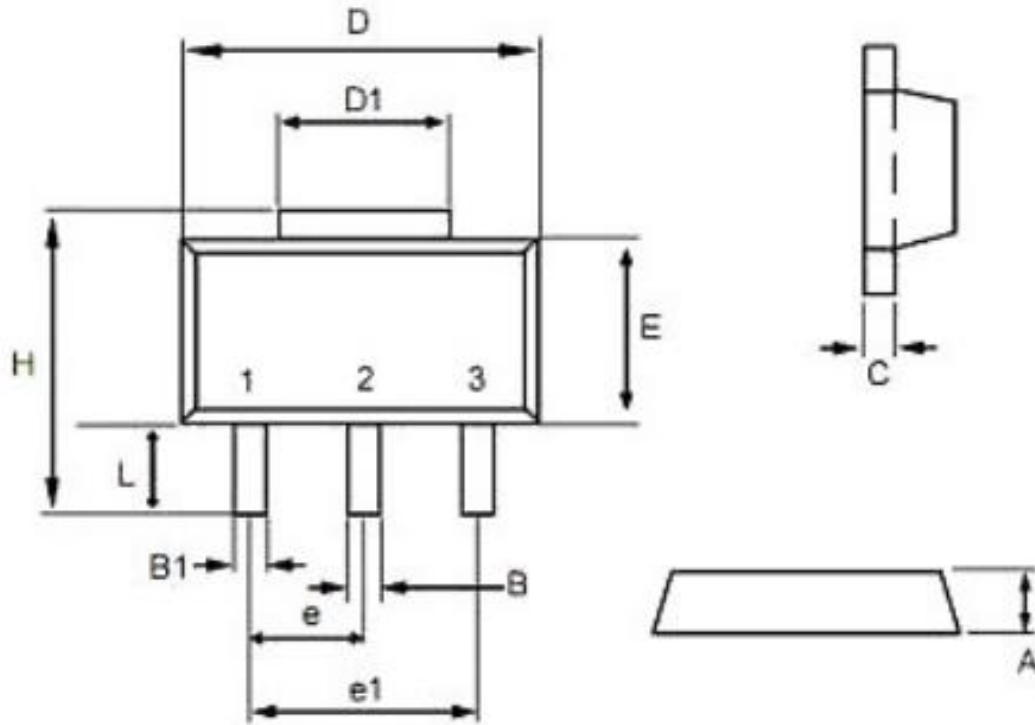
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Rat 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	$R_{\theta JA}$	250	$^{\circ}\text{C}/\text{W}$
Solder Temperature 焊接温度	T_d	260	$^{\circ}\text{C}$
Solder Time 焊接时间	T_d	10	S
Operating Ambient Temperature 工作温度	T_A	+85	$^{\circ}\text{C}$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-40to+125 $^{\circ}\text{C}$	

Electrical Characteristics 电特性

 ($V_{IN} \leq 10V$ $T_J = 25^\circ C$ 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
Output Voltage 输出电压	V_O	AZ1117CR -3.3TRG1-CN	$I_O = 10mA$ $V_I = 5.3$	3.251	3.3	3.350	V
			$10mA \leq I_O \leq 0.8A$ $4.8 \leq V_I \leq 12$	3.234	3.3	3.366	
Line Regulation 线性调整率	LNR	AZ1117CR -3.3TRG1-CN	$I_O = 10mA$ $1.5 \leq V_I - V_O \leq 8.7$		1	7	mV
Load Regulation 负载调整率	LDR	AZ1117CR -3.3TRG1-CN	$10mA \leq I_O \leq 0.8A$ $V_I - V_O = 1.5$			13.2	mV
Dropout Voltage	V_D	落差电压	$\Delta V_R = 1\%$ $I_O = 0.8A$		1.2	1.3	V
Adjust Pin Current	I_{adj}	电流调整	$I_O = 10mA$			120	μA
Adjust Current Change	ΔI_{adj}	电流调整率	$1.5 \leq V_I - V_O \leq 12$ $I_O = 10mA$			5	μA
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			$T_A = 125^\circ C$ 1000hrs		0.3		%
RMS Output Noise(% of Vout)输出噪声			$T_A = 125^\circ C$		0.003		%
Thermal Shutdown Hysteresis 热特性					25		$^\circ C$

SOT-89 Dimension 外形封装尺寸


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.40	1.60	0.055	0.063
B	0.40	0.56	0.016	0.022
B1	0.35	0.48	0.014	0.019
C	0.35	0.44	0.014	0.017
D	4.40	4.60	0.173	0.181
D1	1.35	1.83	0.053	0.072
e	1.45	1.55	0.057	0.061
e1	2.95	3.05	0.116	0.120
E	2.29	2.60	0.090	0.102
H	3.75	4.25	0.148	0.167
L	0.80	1.20	0.031	0.047

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