

SOT-89-3L Three Terminal Regulator 三端稳压 IC**■Features 特点****Pin 脚位:** 1.Output 输出 2.Ground 地 3.Input 输入**Output Voltage 输出电压:** 3.3V**Output Current 输出电流:** 0.15A**Power dissipation 耗散功率:** 0.5W**Thermal overload protection 过热保护****Short circuit current limiting 短路电流极限****■Absolute Maximum Ratings 最大额定值**

(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

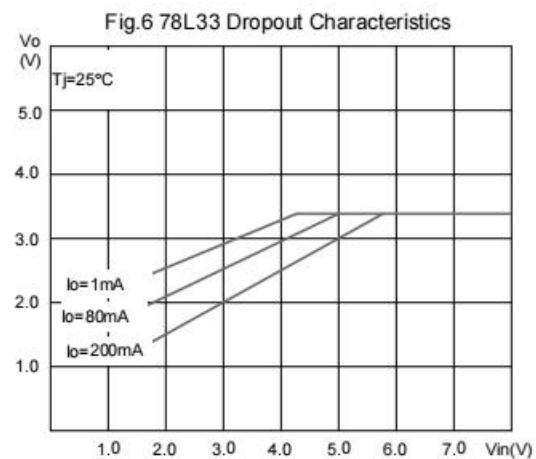
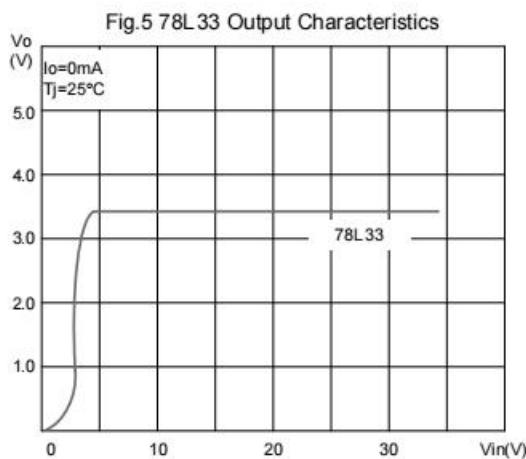
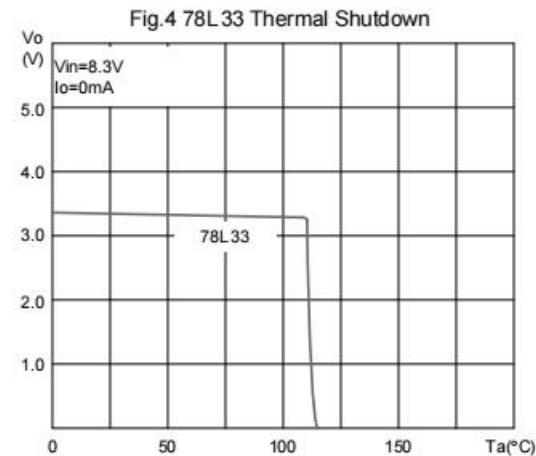
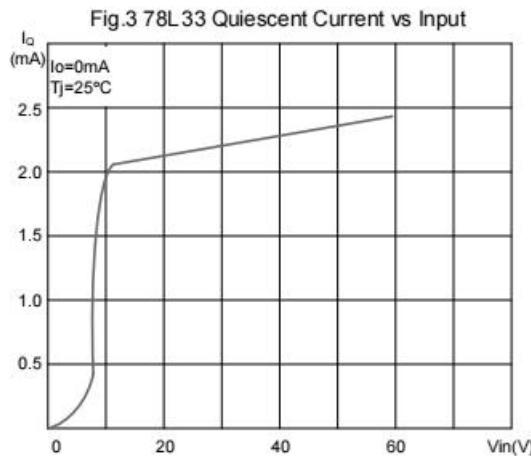
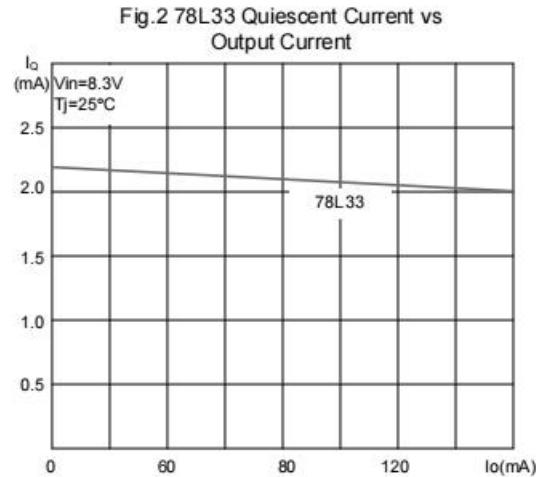
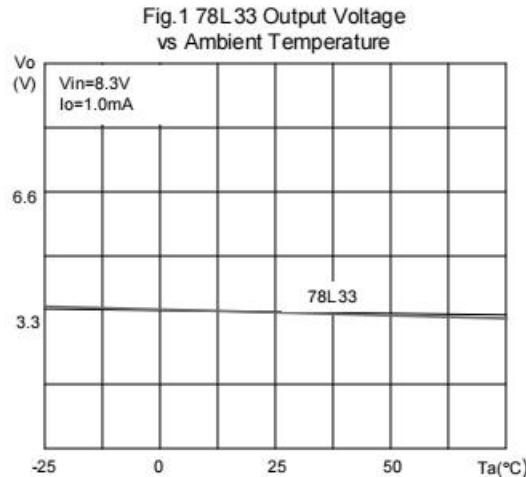
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Input Voltage 输入电压	V _i	30	V
Operating Current 工作电流	I _o	150	mA
Power dissipation 耗散功率	P _D	500	mW
Thermal Resistance Junction-Ambient 热阻	R _{θJA}	250	°C/W
Solder Temperature 焊接温度	T _d	260	°C
Solder Temperature/Time 焊接时间	T _d	10	s
Operating Ambient Temperature 工作温度	T _A	-40~+125	°C
Junction Temperature 结温	T _J	150	°C
Storage Temperature 储藏温度	T _{stg}	-55 to +150 °C	

■Electrical Characteristics 电特性

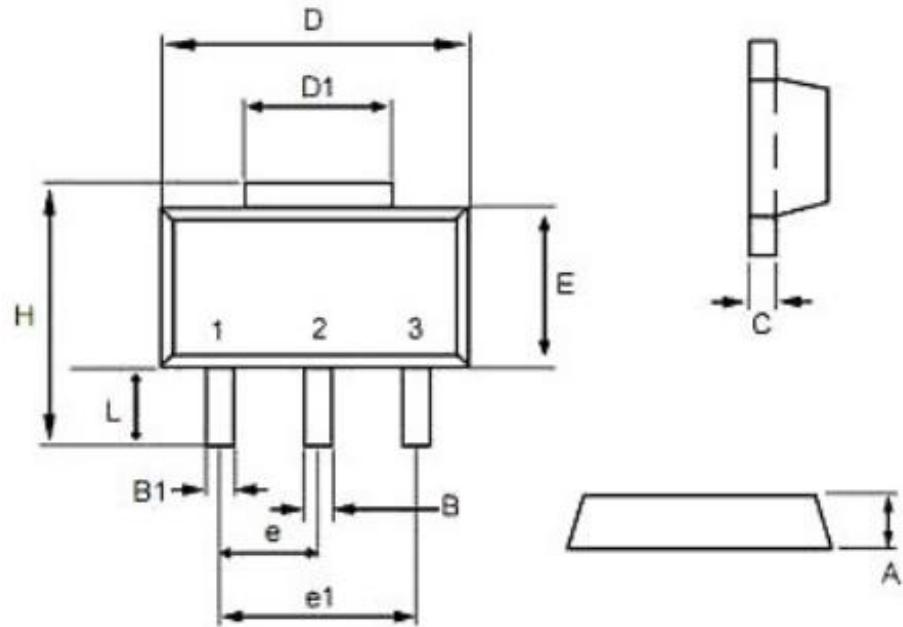
(Vi=8.3V Io=80mA Ci=0.33uF Co=0.1uF TA=25°C unless otherwise noted 如无特殊说明)

Characteristic 特性参数	Symbol 符号	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	VO	VI=8.3V IO=80mA	3.168	3.3	3.432	V
Output Voltage 输出电压	VO	5.3V≤VI≤20V 1mA≤IO≤80mA	3.135		3.465	V
Output Voltage 输出电压	VO	VI=8.3V 1mA≤IO≤140mA	3.135		3.465	V
Output Current 输出电流	IO	VI=8.3V		150		mA
Dropout Voltage 落差电压	VD	IO=80mA		1.7		V
Quiescent Current 静态电流	Iq	VI=8.3V IO=0		2	5.5	mA
Quiescent Current Change 静态电流变化	ΔIq	6.3V≤VI≤20V			1.5	mA
Quiescent Current Change 静态电流变化	ΔIq	1mA≤IO≤80mA			0.1	mA
Line Regulation 线性调整	ΔVO	IO=80mA 5.3V≤VI≤20V		7	150	mV
Line Regulation 线性调整	ΔVO	IO=80mA 6.3V≤VI≤20V		4	100	mV
Load Regulation 负载调整	ΔVO	1mA≤IO≤200mA VI=10V		10	60	mV
Load Regulation 负载调整	ΔVO	1mA≤IO≤80mA VI=10V		7	30	mV
Output Noise Voltage 噪声电压	VN	10Hz≤f≤100kHz		40		μV
Ripple Rejection 纹波抑制	RR	6.3V≤VI≤16.3V f=120Hz	40	49		dB

■Typical Characteristic Curve 典型特性曲线



■SOT-89-3L 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