

SOT-89-3L Three Terminal Regulator 三端稳压 IC

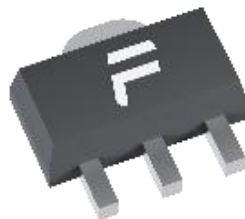
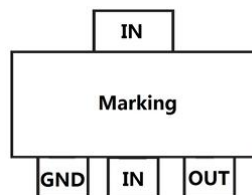
■Features 特点

Pin 脚位: 1.Ground 地 2.Input 输入 3.Output 输出

Output Voltage 输出电压: -9V

Output Current 输出电流: 0.1A

Power dissipation 耗散功率: 0.5W



■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	-30	V
Operating Current 工作电流	I_o	100	mA
Power dissipation 耗散功率	P_D	600	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	208	$^\circ\text{C}/\text{W}$
Solder Temperature 焊接温度/时间	T_d	260	$^\circ\text{C}$
Solder Temperature/Time 焊接时间	T_d	10	S
Operating Ambient Temperature 工作温度	T_A	0~+150	$^\circ\text{C}$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55to+150 $^\circ\text{C}$	

■Device Marking 产品字标

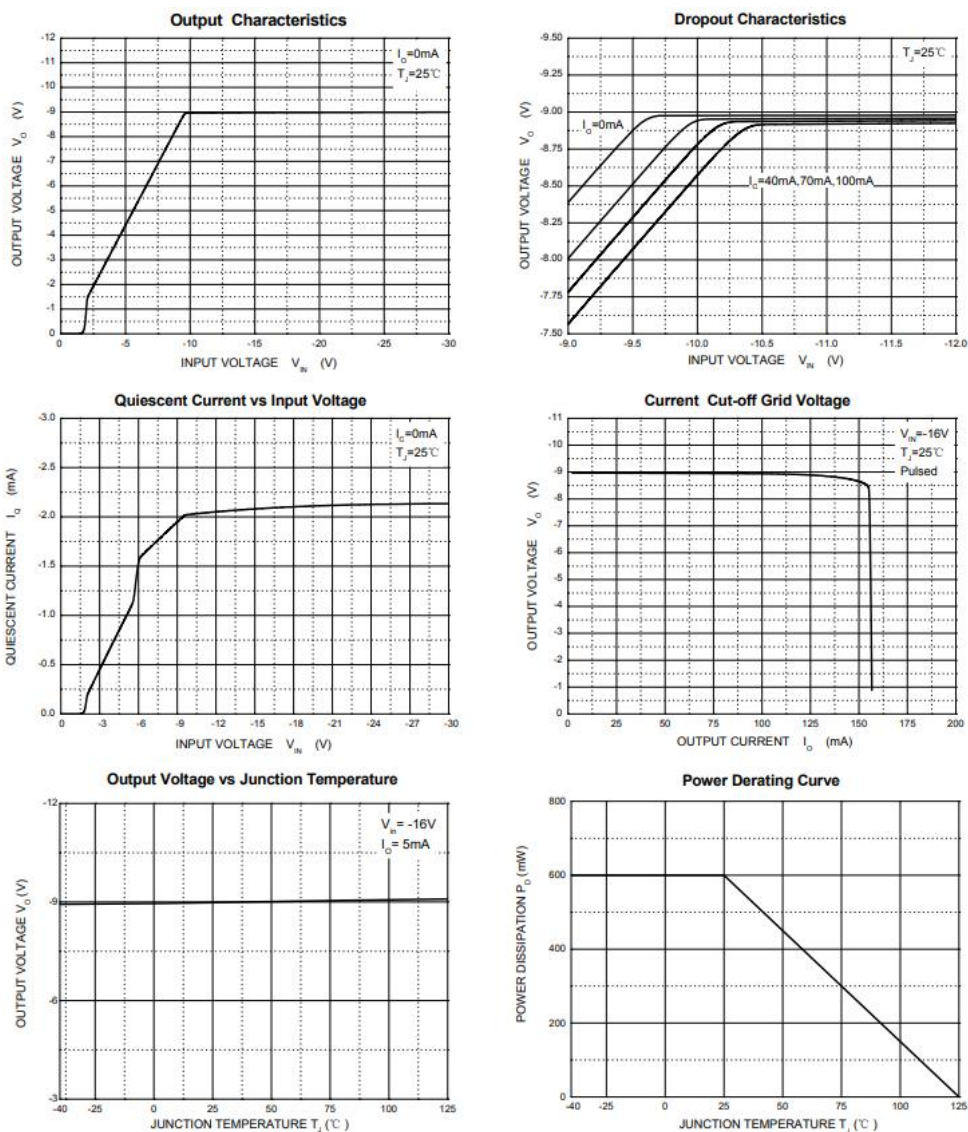
FS79L09=79L09

■Electrical Characteristics 电特性

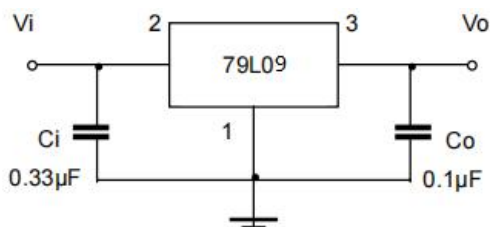
(Vi= -15V Io= 40mA Ci=0.33uF Co=0.1uF TA=25°C unless otherwise noted 如无特殊说明)

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= -15V 25°C Io= 40mA	-8.73	-9	-9.27	V
Output Voltage 输出电压	VO	-11V≤VI≤ -24V 1mA≤Io≤40mA 0~125°C	-8.6	-9	-9.4	V
Output Voltage 输出电压	VO	VI= -15V 1mA≤Io≤70mA 0~125°C	-8.6	-9	-9.4	V
Dropout Voltage 落差电压	VD	Io=40mA 25°C		-1.7		V
Quiescent Current 静态电流	Iq	VI= -15V Io=0 25°C		3	6	mA
Quiescent Current Change 静态电流变化	ΔIq	-12V≤VI≤ -23V 0~125°C			1.5	mA
Quiescent Current Change 静态电流变化	ΔIq	1mA≤Io≤40mA 0~125°C			0.1	mA
Line Regulation 线性调整	ΔVO	Io=40mA 25°C -11V≤VI≤ -24V		50	200	mV
Line Regulation 线性调整	ΔVO	Io=40mA 25°C -12V≤VI≤ -23V		30	150	mV
Load Regulation 负载调整	ΔVO	1mA≤Io≤100mA VI= -15V 25°C		90	100	mV
Load Regulation 负载调整	ΔVO	1mA≤Io≤40mA VI= -15V 25°C		60	80	mV
Output Noise Voltage 噪声电压	VN	10Hz≤f≤100kHz 25°C		200		μV/VO
Ripple Rejection 纹波抑制	RR	-12V≤VI≤ -23V f=120Hz 0~125°C	30	60		dB

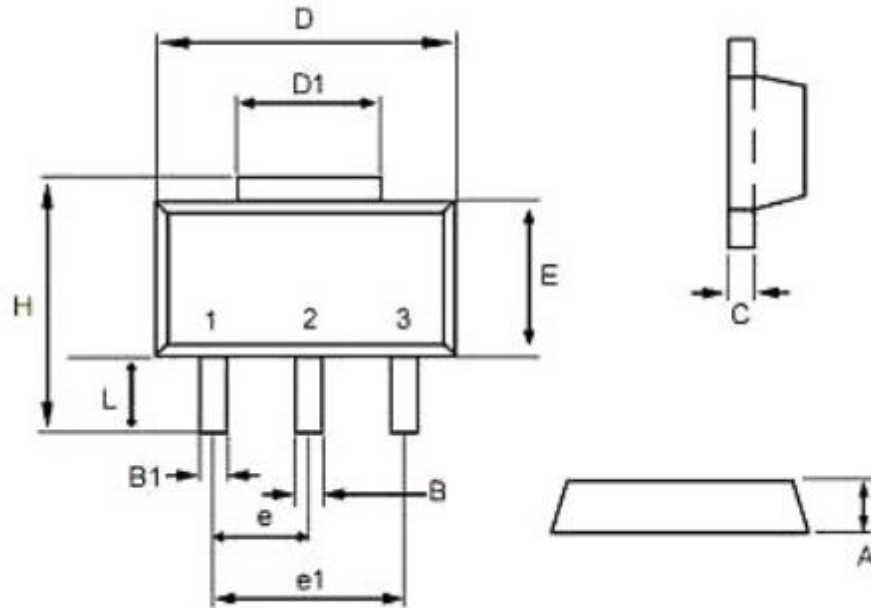
■ Typical Characteristic Curve 典型特性曲线



■ Typical Application 典型应用



■ 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