

## SOT-89 Three Terminal Regulator 三端稳压 IC

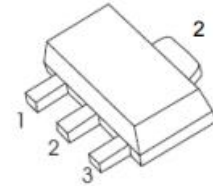
### ■Features 特点

**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  $25^{\circ}\text{C}$ )

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

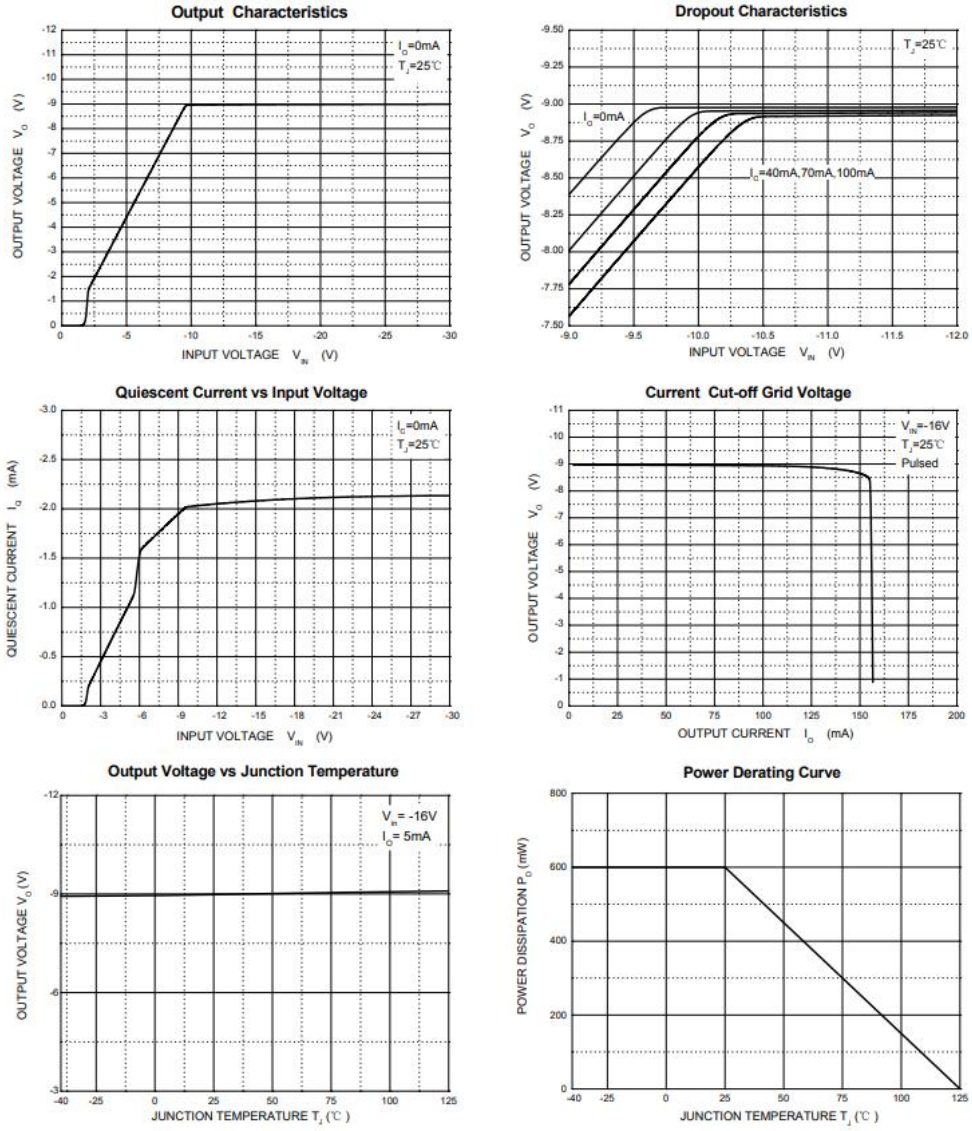
**FS79L09=79L09**

■ Electrical Characteristics 电特性

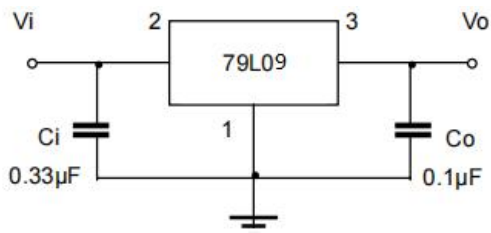
( $V_i = -15V$   $I_o = 40mA$   $C_i = 0.33\mu F$   $C_o = 0.1\mu F$   $T_A = 25^\circ C$  unless otherwise noted 如无特殊说明 )

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	$V_o$	$V_i = -15V$ $25^\circ C$ $I_o = 40mA$	-8.73	-9	-9.27	V
Output Voltage 输出电压	$V_o$	$-11V \leq V_i \leq -24V$ $1mA \leq I_o \leq 40mA$ $0 \sim 125^\circ C$	-8.6	-9	-9.4	V
Output Voltage 输出电压	$V_o$	$V_i = -15V$ $1mA \leq I_o \leq 70mA$ $0 \sim 125^\circ C$	-8.6	-9	-9.4	V
Dropout Voltage 落差电压	$V_D$	$I_o = 40mA$ $25^\circ C$		-1.7		V
Quiescent Current 静态电流	$I_q$	$V_i = -15V$ $I_o = 0$ $25^\circ C$		3	6	mA
Quiescent Current Change 静态电流变化	$\Delta I_q$	$-12V \leq V_i \leq -23V$ $0 \sim 125^\circ C$			1.5	mA
Quiescent Current Change 静态电流变化	$\Delta I_q$	$1mA \leq I_o \leq 40mA$ $0 \sim 125^\circ C$			0.1	mA
Line Regulation 线性调整	$\Delta V_o$	$I_o = 40mA$ $25^\circ C$ $-11V \leq V_i \leq -24V$		50	200	mV
Line Regulation 线性调整	$\Delta V_o$	$I_o = 40mA$ $25^\circ C$ $-12V \leq V_i \leq -23V$		30	150	mV
Load Regulation 负载调整	$\Delta V_o$	$1mA \leq I_o \leq 100mA$ $V_i = -15V$ $25^\circ C$		90	100	mV
Load Regulation 负载调整	$\Delta V_o$	$1mA \leq I_o \leq 40mA$ $V_i = -15V$ $25^\circ C$		60	80	mV
Output Noise Voltage 噪声电压	$V_N$	$10Hz \leq f \leq 100kHz$ $25^\circ C$		200		$\mu V/V_o$
Ripple Rejection 纹波抑制	RR	$-12V \leq V_i \leq -23V$ $f = 120Hz$ $0 \sim 125^\circ C$	30	60		dB

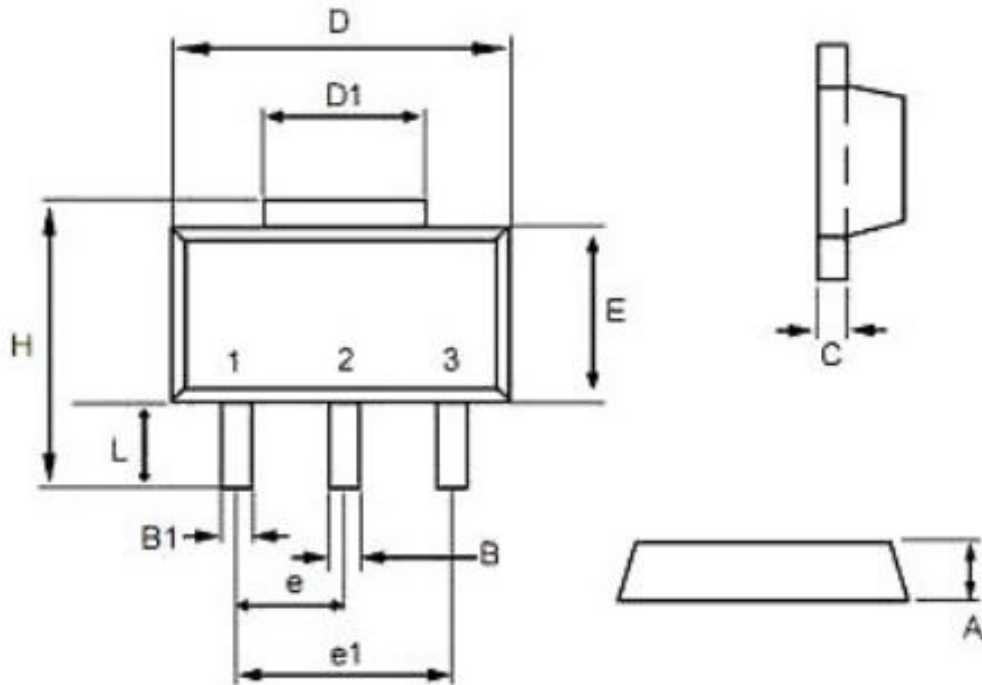
■ Typical Characteristic Curve 典型特性曲线



■ Typical Application 典型应用



■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