

## SOT-23-3L Encapsulate Three Terminal Voltage Regulators

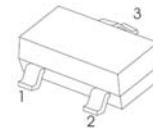
### CJ79L09 Three-terminal negative voltage regulator

#### FEATURES

- Maximum output current  
 $I_{OM}$ : 0.1 A
- Output voltage  
 $V_o$ : - 9 V
- Continuous total dissipation  
 $P_D$ : 0.35W

**SOT-23-3L**

1.GND  
2.OUT  
3.IN



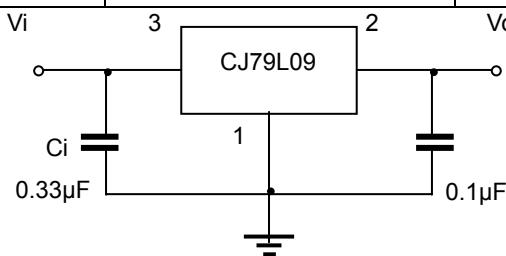
#### ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	$V_I$	-30	V
Operating Junction Temperature Range	$T_{OPR}$	0~+150	°C
Storage Temperature Range	$T_{STG}$	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ( $V_i = -16V$ ,  $I_o = 40mA$ ,  $C_i = 0.33\mu F$ ,  $C_o = 0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	$V_o$		25°C	-8.64	-9.0	-9.36	V
		-12V ≤ $V_i$ ≤ -24V, $I_o = 1mA$ -40mA	0-125°C	-8.55	-9.0	-9.45	V
		$I_o = 1mA$ -70mA		-8.55	-9.0	-9.45	V
Load Regulation	$\Delta V_o$	$I_o = 1mA$ -100mA	25°C	19	90	mV	
		$I_o = 1mA$ -40mA	25°C	11	40	mV	
Line Regulation	$\Delta V_o$	-12 V ≤ $V_i$ ≤ -24V	25°C	45	175	mV	
		-13V ≤ $V_i$ ≤ -24V	25°C	40	125	mV	
Quiescent Current	$I_q$		25°C	4.1	6.0	mA	
Quiescent Current Change	$\Delta I_q$	-13V ≤ $V_i$ ≤ -24V	0-125°C		1.5	mA	
	$\Delta I_q$	1mA ≤ $V_i$ ≤ 40mA	0-125°C		0.1	mA	
Output Noise Voltage	$V_N$	10Hz ≤ f ≤ 100KHz	25°C	58		µV	
Ripple Rejection	RR	-15V ≤ $V_i$ ≤ -24V, f=120Hz	0-125°C	45		dB	
Dropout Voltage	$V_d$		25°C	1.7		V	

#### TYPICAL APPLICATION



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators