



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23-3L Encapsulate Three Terminal Voltage Regulator

CJ79L09 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

V_o : - 9 V

SOT-23-3L

1.GND

2.OUT

3.IN



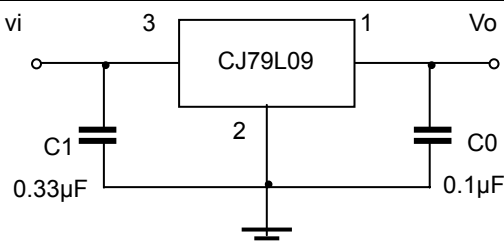
ABSOLUTE MAXIMUM RATINGS(Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_I	-30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	°C
Storage Temperature Range	T_{STG}	-55—+150	°C

ELECTRICAL CHARACTERISTICS($V_I=-16V, I_o=40mA, 0^{\circ}C < T_j < 125^{\circ}C, C_1=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^{\circ}C$	-8.64	-9.0	-9.36	V
		$-12V \leq V_I \leq -24V, I_o=1mA-40mA$	-8.55	-9.0	-9.45	V
		$I_o=1mA-70mA$	-8.55	-9.0	-9.45	V (note)
Load Regulation	ΔV_o	$T_j=25^{\circ}C, I_o=1mA-100mA$		19	90	mV
		$T_j=25^{\circ}C, I_o=1mA-40mA$		11	40	mV
Line regulation	ΔV_o	$-12V \leq V_I \leq -24V, T_j=25^{\circ}C$		45	175	mV
		$-13V \leq V_I \leq -24V, T_j=25^{\circ}C$		40	125	mV
Quiescent Current	I_q			4.1	6.0	mA
Quiescent Current Change	ΔI_q	$-13V \leq V_I \leq -24V$			1.5	mA
	ΔI_q	$1mA \leq V_I \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		58		μV
Ripple Rejection	RR	$-15V \leq V_I \leq -24V, f=120Hz, T_j=25^{\circ}C$		45		dB
Dropout Voltage	V_d	$T_j=25^{\circ}C$		1.7		V

TYPICAL APPLICATION



Note 1: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators