



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89-3L Encapsulate Three terminal voltage regulators

CJ79L09 Three-terminal negative voltage regulator

FEATURES

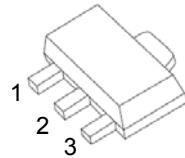
- Maximum output current
 I_{OM} : 0.1 A
- Output voltage
 V_o : - 9 V
- Continuous total dissipation
 P_D : 0.5W

SOT-89-3L

1.GND

2.IN

3.OUT



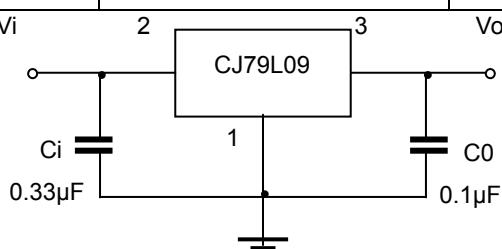
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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	V
		-12V≤ V_i ≤-24V, $I_o=1mA-40mA$	0-125°C	-8.55	-9.0	-9.45
		$I_o=1mA-70mA$		-8.55	-9.0	-9.45
Load Regulation	ΔV_o	$I_o=1mA-100mA$	25°C	19	90	mV
		$I_o=1mA-40mA$	25°C	11	40	mV
Line Regulation	ΔV_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	ΔI_q	-13V≤ V_i ≤-24V	0-125°C		1.5	mA
		1mA≤ V_i ≤40mA	0-125°C		0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	58		uV
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