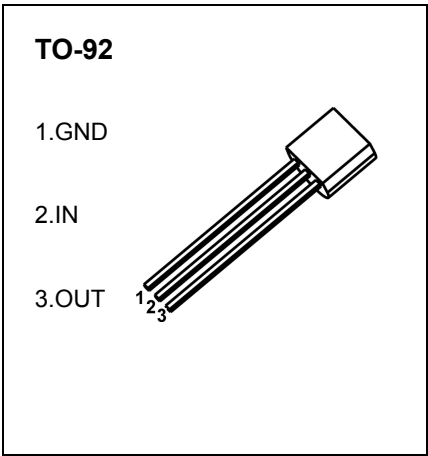


TO-92 Encapsulate Three-terminal voltage regulators

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 : 0.625W



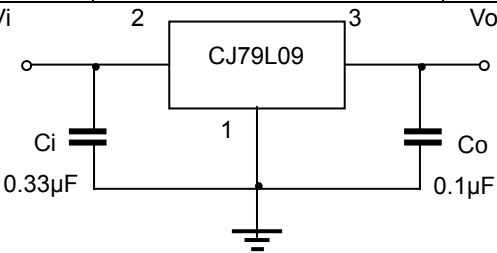
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 JINCTION TEMPERATURE (V_i =-16V, I_o =40mA, C_i =0.33μF, C_o =0.1μF, 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	-8.55	-9.0	-9.45	V
		I_o =1mA-70mA	-8.55	-9.0	-9.45	V
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
	ΔI_q	1mA≤ V_i ≤40mA	0-125°C		0.1	mA
Output Noise Voltage	V_N	10Hz≤ f ≤100KHz	25°C	58		εV
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