

TO-92 Encapsulate Three-terminal voltage regulators

CJ79L08 Three-terminal negative voltage regulator

FEATURES

Maximum output current

$$I_{OM}: 0.1\text{ A}$$

Output voltage

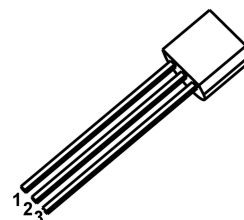
$$V_O: -8\text{ V}$$

Continuous total dissipation

$$P_D: 0.625\text{ W}$$

TO-92

1. GND
2. IN
3. OUT



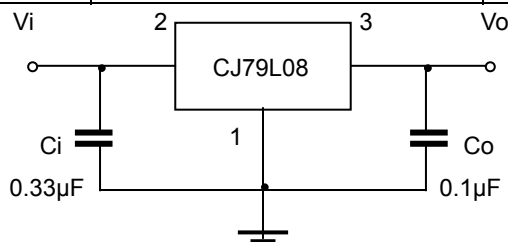
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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($V_I=-14\text{V}$, $I_O=40\text{mA}$, $C_i=0.33\mu\text{F}$, $C_o=0.1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_O	25°C	-7.7	-8.0	-8.3	V
		-10.5V ≤ V_I ≤ -23V, $I_O=1\text{mA} \sim 40\text{mA}$	-7.6	-8.0	-8.4	V
		0-125°C, $I_O=1\text{mA} \sim 70\text{mA}$	-7.6	-8.0	-8.4	V
Load Regulation	ΔV_O	$I_O=1\text{mA} \sim 100\text{mA}$, 25°C		30	100	mV
		$I_O=1\text{mA} \sim 40\text{mA}$, 25°C		15	50	mV
Line Regulation	ΔV_O	-10.5V ≤ V_I ≤ -23V, 25°C		42	200	mV
		-11V ≤ V_I ≤ -23V, 25°C		36	150	mV
Quiescent Current	I_q	25°C		4	6	mA
Quiescent Current Change	ΔI_q	-11V ≤ V_I ≤ -23V, 0-125°C			1.5	mA
	ΔI_q	1mA ≤ I_O ≤ 40mA, 0-125°C			0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz, 25°C		54		μV
Ripple Rejection	RR	-11V ≤ V_I ≤ -21V, f=120Hz, 0-125°C	37	46		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.