

TO-92 Encapsulate Three-terminal voltage regulators

CJ79L08 Three-terminal negative voltage regulator

FEATURES

Maximum output current

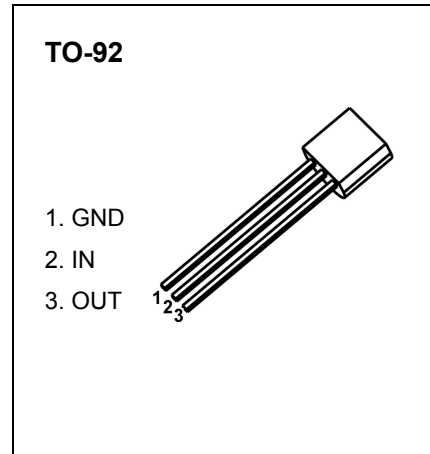
I_{OM} : 0.1 A

Output voltage

V_O : -8 V

Continuous total dissipation

P_D : 0.625 W



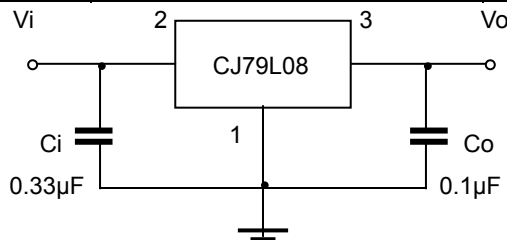
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

Parameter	Symbol	Test conditions	M_j	T_{nd}	MU	$I_{b/h}$
Output Voltage	V_o	$25^\circ C$	-7.7	-8.0	-8.3	V
		$-10.5V \leq V_I \leq -23V, I_o=1mA \sim 40mA$	-7.6	-8.0	-8.4	V
		$0-125^\circ C$ $I_o=1mA \sim 70mA$	-7.6	-8.0	-8.4	V
Load Regulation	ΔV_o	$I_o=1mA \sim 100mA$ $25^\circ C$		30	100	mV
		$I_o=1mA \sim 40mA$ $25^\circ C$		15	50	mV
Line Regulation	ΔV_o	$-10.5V \leq V_I \leq -23V$ $25^\circ C$		42	200	mV
		$-11V \leq V_I \leq -23V$ $25^\circ C$		36	150	mV
Quiescent Current	I_q	$25^\circ C$		4	6	mA
Quiescent Current Change	ΔI_q	$-11V \leq V_I \leq -23V$ $0-125^\circ C$			1.5	mA
		$1mA \leq I_o \leq 40mA$ $0-125^\circ C$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$ $25^\circ C$		54		μV
Ripple Rejection	RR	$-11V \leq V_I \leq -21V, f=120Hz$ $0-125^\circ C$	37	46		dB
Dropout Voltage	V_d	$25^\circ C$		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.