



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23-3L Encapsulate Three Terminal Voltage Regulator

CJ79L08 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

V_o : -8 V

SOT-23-3L

1. GND
2. OUT
3. IN



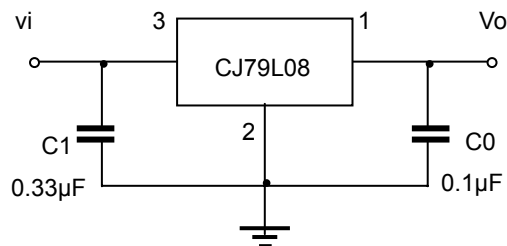
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ($V_I = -14V, I_o = 40mA, 0^\circ C < T_j < 125^\circ C, C_1 = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j = 25^\circ C$	-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
		$-10.5V \leq V_I \leq -23V, I_o = 1mA \sim 70mA$	-7.6	-8.0	-8.4	V (note)
Load Regulation	ΔV_o	$T_j = 25^\circ C, I_o = 1mA \sim 100mA$		30	100	mV
		$T_j = 25^\circ C, I_o = 1mA \sim 40mA$		15	50	mV
Line regulation	ΔV_o	$-10.5V \leq V_I \leq -23V, T_j = 25^\circ C$		42	200	mV
		$-11V \leq V_I \leq -23V, T_j = 25^\circ C$		36	150	mV
Quiescent Current	I_q	$T_j = 25^\circ C$		4	6	mA
Quiescent Current Change	ΔI_q	$-11V \leq V_I \leq -23V$			1.5	mA
	ΔI_q	$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		54		uV
Ripple Rejection	RR	$-11V \leq V_I \leq -21V, f = 120Hz, T_j = 25^\circ C$	37	46		dB
Dropout Voltage	V_d	$T_j = 25^\circ C$		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.

