



SOT-89 Encapsulate Three Terminal Voltage Regulator

CJ79L08 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

V_O : -8 V

Continuous total dissipation

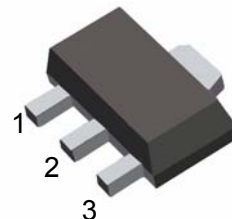
P_D : 0.5 W

SOT-89

1. GND

2. IN

3. OUT



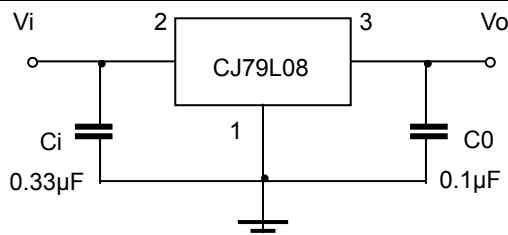
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_O	$25^\circ C$	-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
		$I_O = 1mA \sim 70mA$	-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	$-11V \leq V_I \leq -23V$	$0 \sim 125^\circ C$	1.5		mA
	ΔI_q	$1mA \leq I_O \leq 40mA$	$0 \sim 125^\circ C$	0.1		mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	$25^\circ C$	54		μV
Ripple Rejection	RR	$-11V \leq V_I \leq -21V$, $f = 120Hz$	$0 \sim 125^\circ C$	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.

Typical Characteristics

CJ79LXX

