

SOT-89-3L Encapsulate Three-terminal Voltage Regulators

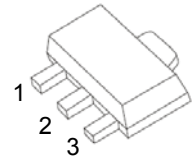
CJ79L08 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 I_{OM} : 0.1 A
- Output voltage
 V_O : -8 V
- Continuous total dissipation
 P_D : 0.5 W

SOT-89-3L

- GND
- IN
- OUT



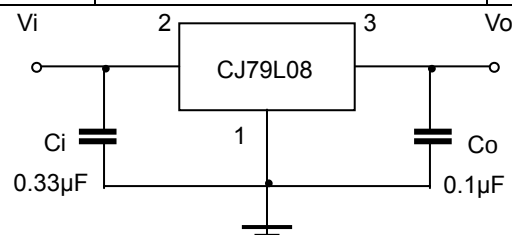
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_O	25°C	-7.7	-8.0	-8.3	V
		-10.5V ≤ V_I ≤ -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°C	30	100	mV
		$I_O = 1mA \sim 40mA$	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		uV
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.