

## SOT-23-3L Encapsulate Three Terminal Voltage Regulators

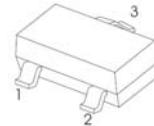
### CJ79L08 Three-terminal negative voltage regulator

#### FEATURES

- Maximum Output current  
 $I_{OM}$ : 0.1 A
- Output voltage  
 $V_o$ : -8 V
- Continuous total dissipation  
 $P_D$ : 0.35 W

#### SOT-23-3L

1. GND
2. OUT
3. IN



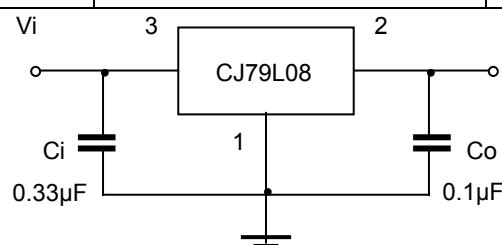
#### ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	$V_I$	-30	V
Operating Junction Temperature Range	$T_{OPR}$	0~+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, $I_O=1mA$ ~40mA	-7.6	-8.0	-8.4	V
		$I_O=1mA$ ~70mA	-7.6	-8.0	-8.4	V
Load Regulation	$\Delta V_o$	$I_O=1mA$ ~100mA	25°C	30	100	mV
		$I_O=1mA$ ~40mA	25°C	15	50	mV
Line Regulation	$\Delta V_o$	-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	$\Delta I_q$	-11V≤ $V_I$ ≤-23V	0-125°C		1.5	mA
	$\Delta I_q$	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.