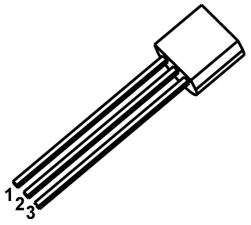
# TO-92 Encapsulate Three-terminal voltage regulators

**CJ79L12** Three-terminal negative voltage regulator

**TO-92**

1. GND
2. IN
3. OUT




## FEATURES

Maximum output current

$I_{OM:}$ 0.1 A

Output voltage

$V_o$: -12 V

Continuous total dissipation

$P_D$: 0. 625 W

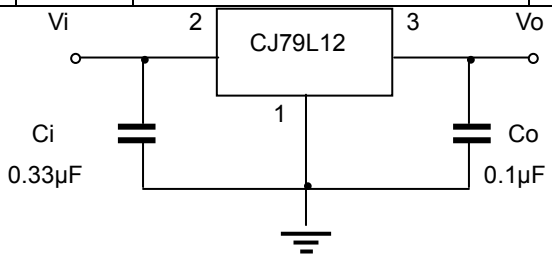
**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Input Voltage | $V_I$ | -35 | V |
| Operating Junction Temperature Range | $T_{OPR}$ | 0~+150 | ℃ |
| Storage Temperature Range | $T_{STG}$ | -55~+150 | ℃ |

**ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (Vi=19V,Io=40mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified )**

| Parameter | Symbol | Test conditions | | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|---|
| Output Voltage | Vo | | 25℃ | -11.5 | -12 | -12.5 | V |
| | | -14.5V≤$V_I$≤-27V, Io=1mA~40mA | 0-125℃ | -11.4 | -12 | -12.6 | V |
| | | Io=1mA~70mA | | -11.4 | -12 | -12.6 | V |
| Load Regulation | ΔVo | Io=1mA~100mA | 25℃ | | 24 | 100 | mV |
| | | Io=1mA~40mA | 25℃ | | 15 | 50 | mV |
| Line Regulation | ΔVo | -14.5V≤$V_I$≤-27V | 25℃ | | 50 | 250 | mV |
| | | -16V≤$V_I$≤-27V | 25℃ | | 40 | 200 | mV |
| Quiescent Current | Iq | | 25℃ | | | 6.5 | mA |
| Quiescent Current Change | ΔIq | -16V≤$V_I$≤-27V | 0-125℃ | | | 1.5 | mA |
| | ΔIq | 1mA≤$I_O$≤40mA | 0-125℃ | | | 0.1 | mA |
| Output Noise Voltage | $V_N$ | 10Hz≤f≤100KHz | 25℃ | | 80 | | μV |
| Ripple Rejection | RR | -15V≤$V_I$≤-25V,f=120Hz | 0-125℃ | 37 | 42 | | dB |
| Dropout Voltage | Vd | | 25℃ | | 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.