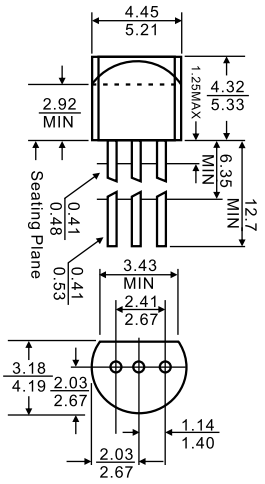
# 79L15

## Three-terminal positive voltage regulator

**TO-92**


1. GND
2. IN
3. OUT

**Dimensions in inches and (millimeters)**

## Features

- ✧ Maximum Output current
  $I_{OM:}$ 100 mA
- ✧ Output voltage
  $V_O$: -15 V
- ✧ Continuous total dissipation
  $P_D$: 0. 625 W

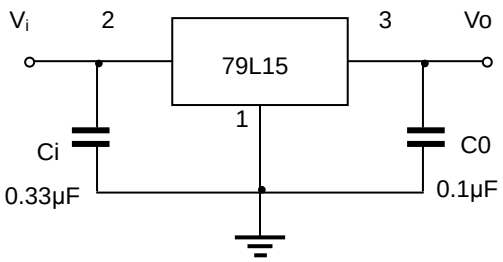
**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

| Parameter | Symbol | Value | Units |
|---|---|---|---|
| Input Voltage | $V_i$ | -35 | V |
| Operating Junction Temperature Range | $T_{OPR}$ | 0~+125 | ℃ |
| Storage Temperature Range | $T_{STG}$ | -55~+150 | ℃ |

**ELECTRICAL CHARACTERISTICS (Vi=-23V, Io=40mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified )**

| Parameter | Symbol | Test conditions | | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|---|
| Output voltage | Vo | | 25℃ | -14.4 | -15 | -15.6 | V |
| | | -17.5V≤$V_i$≤-30V, Io=1mA~40mA | 0-125℃ | -14.25 | -15 | -15.75 | V |
| | | Io=1mA~70mA | | -14.25 | -15 | -15.75 | V |
| Load Regulation | ΔVo | Io=1mA~100mA, $V_i$=-23V | 25℃ | | 25 | 150 | mV |
| | | Io=1mA~40mA, $V_i$=-23V | 25℃ | | 15 | 75 | mV |
| Line regulation | ΔVo | -17.5V≤Vi≤-30V,Io=40mA | 25℃ | | 65 | 300 | mV |
| | | -20V≤Vi≤-30V,Io=40mA | 25℃ | | 50 | 250 | mV |
| Quiescent Current | Iq | | 25℃ | | | 6.5 | mA |
| Quiescent Current Change | ΔIq | -20V≤Vi≤-30V, Io=40mA | 0-125℃ | | | 1.5 | mA |
| | ΔIq | 1mA≤$I_O$≤40mA | 0-125℃ | | | 0.1 | mA |
| Output Noise Voltage | $V_N$ | 10Hz≤f≤100KHz | 25℃ | | 90 | | μV |
| Ripple Rejection | RR | -18.5V≤Vi≤-28.5V,f=120Hz | 0-125℃ | 34 | 39 | | 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.

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## TypicalCharacteristics