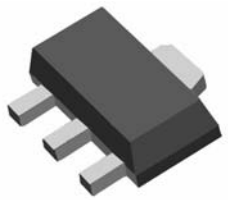
**JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD**

# SOT-89 Encapsulate Three-terminal Voltage Regulator

**CJ79L15** Three-terminal positive voltage regulator

**SOT-89**

1. BASE
2. COLLECTOR
3. EMITTI



**FEATURES**

Maximum Output current

$I_{OM:}$ 100 mA

Output voltage

$V_O$: -15 V

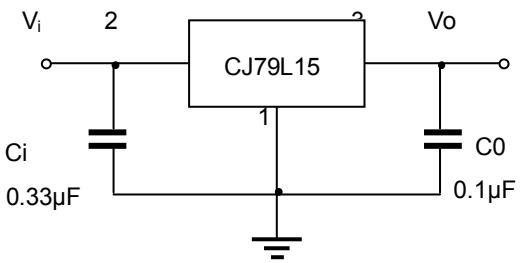
**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

| Parameter | Symbol | Value | Unlts |
|---|---|---|---|
| Input Voltage | $V_i$ | -35 | V |
| Operating Junction Temperature Range | $T_{OPR}$ | -20~+120 | ℃ |
| Storage Temperature Range | $T_{STG}$ | -55~+150 | ℃ |

**ELECTRICAL CHARACTERISTICS (Vis=-23V,Io=40mA,0℃<Tj<125℃,C1=0.33μF,Co=0.1μF, unless otherwise specified )**

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Output voltage | Vo | Tj=25℃ | -14.4 | -15 | -15.6 | V |
| | | -17.5V≤$V_i$≤-30V, Io=1mA~40mA | -14.25 | -15 | -15.75 | V |
| | | $V_i$=-23V, Io=1mA~70mA | -14.25 | -15 | -15.75 | (note) |
| Load Regulation | ΔVo | Tj=25℃, Io=1mA~100mA, $V_i$=-23V | | 25 | 150 | mV |
| | | Tj=25℃, Io=1mA~40mA, $V_i$=-23V | | 15 | 75 | mV |
| Line regulation | ΔVo | -17.5V≤Vi≤-30V, Tj=25℃ ,Io=40mA | | 65 | 300 | mV |
| | | -19V≤Vi≤-30V, Tj=25℃,Io=40mA | | 5 | 250 | mV |
| Quiescent Current | Iq | Tj=25℃ | | | 6.5 | mA |
| Quiescent Current Change | ΔIq | -19V≤Vi≤-30V, Io=40mA | | | 1.5 | mA |
| | ΔIq | 1mA≤$I_O$≤40mA, Vi=-23V | | | 0.1 | mA |
| Output Noise Voltage | $V_N$ | 10Hz≤f≤100KHz | | 90 | | μV |
| Ripple Rejection | RR | -18.5V≤Vi≤-28.5V,f=120Hz,25℃≤Tj≤125℃ | 34 | 39 | | dB |
| Dropout Voltage | Vd | Tj=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.