

Three Terminal Positive Voltage Regulator

Description

The YJ78L series are fixed-voltage monolithic integrated circuit voltage regulators. They can deliver up to 100mA of output current. In addition, the YJ78L series integrate internal current limit, short-circuit protection and thermal shutdown, so that they are basically not affected by overload. Therefore, the YJ78L series are widely used in various scenarios, such as on-card regulation for elimination of noise and distribution problems associated with single-point regulation.

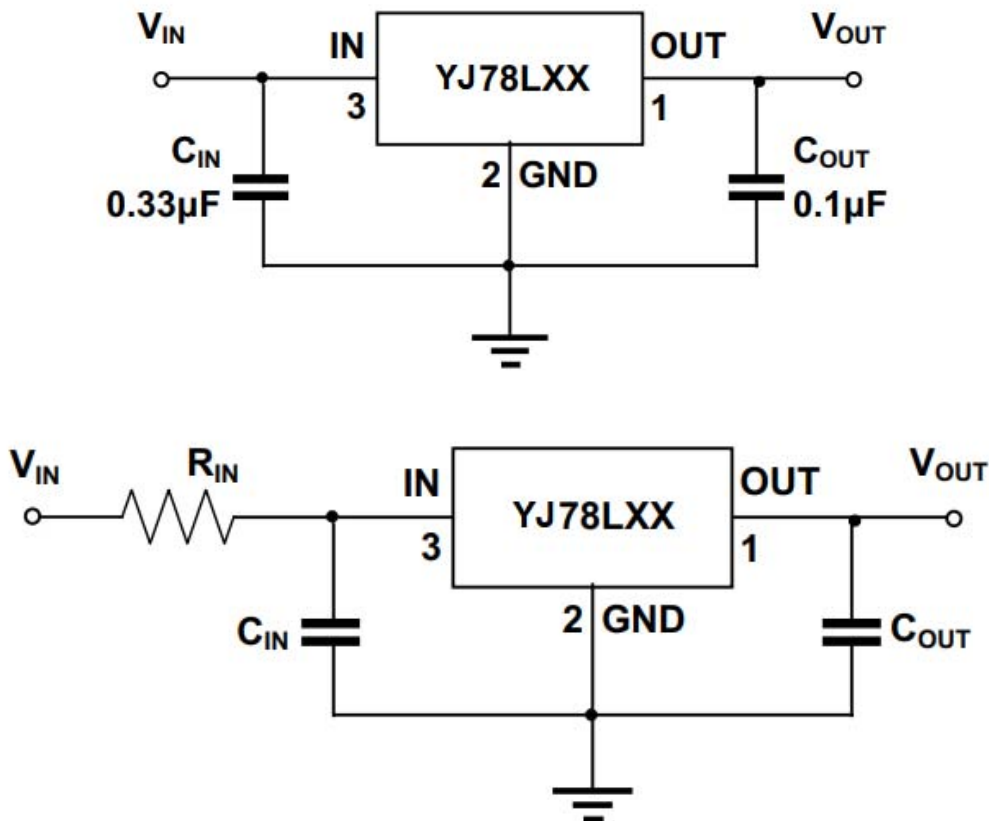
Features

- Fixed Output Voltage of 5V,6V,8V,9V,10V, 12V,15V,18V and 24V Available.
- Output Current Up to 100mA.
- Thermal Overload Shutdown Protection.
- Short Circuit Protection.
- No External Components.

Applications

- TV Board
- Air Conditioner
- Vehicle Mounted Radar
- Charging Device

Typical Application



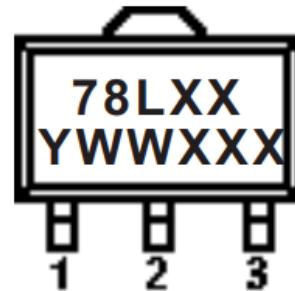
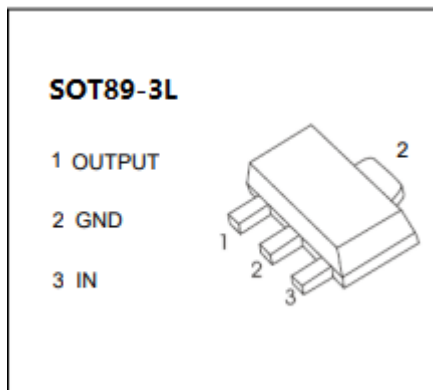


YJ78L Series

■Package and Ordering Information

| Model | Part Number | Package Description | Temperature Range | Ordering Number | Marking Information | Packing Option |
|---------|-------------|---------------------|-------------------|-----------------|---------------------|---------------------|
| YJ78LXX | YJ78L05 | SOT89-3L | -40°C ~ 125°C | YJ78L05LH3Y | 78L05 YWWXXX | Tape & Reel 1000 |
| | YJ78L06 | SOT89-3L | -40°C ~ 125°C | YJ78L06LH3Y | 78L06 YWWXXX | Tape & Reel 1000 |
| | YJ78L08 | SOT89-3L | -40°C ~ 125°C | YJ78L08LH3Y | 78L08 YWWXXX | Tape & Reel 1000 |
| | YJ78L09 | SOT89-3L | -40°C ~ 125°C | YJ78L09LH3Y | 78L09 YWWXXX | Tape & Reel 1000 |
| | YJ78L10 | SOT89-3L | -40°C ~ 125°C | YJ78L10LH3Y | 78L10 YWWXXX | Tape & Reel 1000 |
| | YJ78L12 | SOT89-3L | -40°C ~ 125°C | YJ78L12LH3Y | 78L12 YWWXXX | Tape & Reel 1000 |
| | YJ78L15 | SOT89-3L | -40°C ~ 125°C | YJ78L15LH3Y | 78L15 YWWXXX | Tape & Reel 1000 |
| | YJ78L18 | SOT89-3L | -40°C ~ 125°C | YJ78L18LH3Y | 78L18 YWWXXX | Tape & Reel 1000 |
| | YJ78L24 | SOT89-3L | -40°C ~ 125°C | YJ78L24LH3Y | 78L24 YWWXXX | Tape & Reel 1000 |

■Pin Configuration and Top Mark



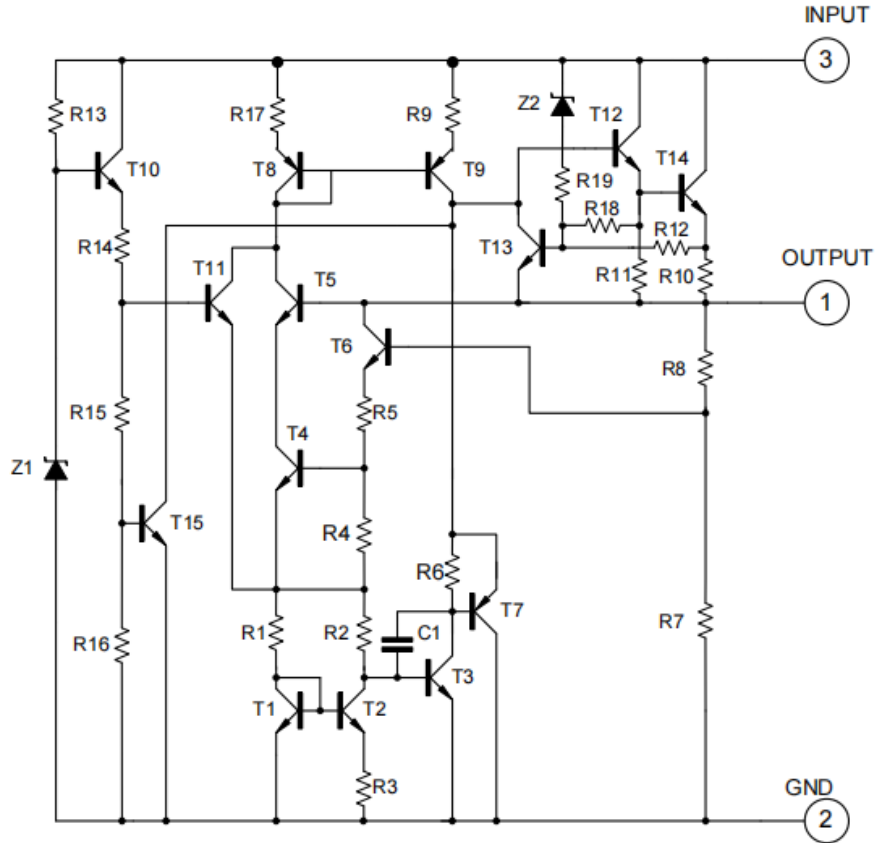
78LXX : Part No.
XX: Output Voltage
YWW: Date Code
XXX: Tracking No.

| XX | Output Voltage (V) | XX | Output Voltage (V) |
|----|--------------------|----|--------------------|
| 05 | 5 | 12 | 12 |
| 06 | 6 | 15 | 15 |
| 08 | 8 | 18 | 18 |
| 09 | 9 | 24 | 24 |
| 10 | 10 | - | - |



YJ78L Series

Functional Block Diagram



Absolute Maximum Ratings (unless otherwise noted)

| Parameter | Symbol | Ratings | Unit | |
|-------------------------------------|------------|-----------------------------|------|---|
| DC Input Voltage | V_{IN} | $5V \leq V_{OUT} \leq 10V$ | 30 | V |
| | | $12V \leq V_{OUT} \leq 18V$ | 35 | |
| | | $V_{OUT} = 24V$ | 40 | |
| Operating Junction Temperature | T_J | -40 to +125 | °C | |
| Storage Temperature | T_{STG} | -65 to +150 | °C | |
| Lead Temperature (Soldering, 10sec) | T_{LEAD} | 260 | °C | |

Notes:

1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.
2. Absolute maximum ratings are stress ratings only and functional device operation is not implied.
3. This condition is only determined from design. It can't be 100% tested in mass production.



YJ78L Series

■ Recommended Operating Ratings

| Parameter | | Symbol | Ratings | | Unit |
|--------------------------------|---------|-----------|---------|-----|------|
| | | | Min | Max | |
| Input Voltage | YJ78L05 | V_{IN} | 7 | 20 | V |
| | YJ78L06 | | 8 | 20 | |
| | YJ78L08 | | 10.5 | 23 | |
| | YJ78L09 | | 11.5 | 24 | |
| | YJ78L10 | | 12.5 | 25 | |
| | YJ78L12 | | 14.5 | 27 | |
| | YJ78L15 | | 17.5 | 30 | |
| | YJ78L18 | | 20.5 | 33 | |
| | YJ78L24 | | 26.5 | 39 | |
| Output Current | | I_{OUT} | - | 100 | mA |
| Operating Junction Temperature | | T_J | -40 | 125 | °C |

■ Electrical Characteristics ($C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, unless otherwise noted)

For YJ78L05($V_{IN}=10V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|------|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^\circ C$ | 4.8 | 5 | 5.2 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $7V \leq V_{IN} \leq 20V$ | 4.75 | 5 | 5.25 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 4.75 | 5 | 5.25 | |
| Line Regulation | LNR | $7V \leq V_{IN} \leq 20V$, $T_J=25^\circ C$ | - | 32 | 150 | mV |
| | | $8V \leq V_{IN} \leq 20V$, $T_J=25^\circ C$ | - | 26 | 100 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^\circ C$ | - | 15 | 60 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^\circ C$ | - | 8 | 30 | |
| Dropout Voltage | V_{DROP} | $T_J=25^\circ C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^\circ C$ | - | 3.8 | 6 | mA |
| | | $I_{OUT}=0$, $T_J=125^\circ C$ | - | - | 5.5 | |
| Quiescent Current Change | ΔI_Q | $8V \leq V_{IN} \leq 20V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $8V \leq V_{IN} \leq 18V$, $f = 120Hz$, $T_J=25^\circ C$ | 41 | 49 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^\circ C$ | - | 42 | - | μV |



YJ78L Series

For YJ78L06($V_{IN}=11V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|---|------|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 5.75 | 6 | 6.25 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $8V \leq V_{IN} \leq 20V$ | 5.7 | 6 | 6.3 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 5.7 | 6 | 6.3 | |
| Line Regulation | LNR | $8V \leq V_{IN} \leq 20V$, $T_J=25^{\circ}C$ | - | 35 | 175 | mV |
| | | $9V \leq V_{IN} \leq 20V$, $T_J=25^{\circ}C$ | - | 29 | 125 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 16 | 80 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 9 | 40 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 3.9 | 6 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 5.5 | |
| Quiescent Current Change | ΔI_Q | $9V \leq V_{IN} \leq 20V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $9V \leq V_{IN} \leq 19V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 40 | 48 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 46 | - | μV |

For YJ78L08($V_{IN}=14V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|-----|-----|-----|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 7.7 | 8 | 8.3 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $10.5V \leq V_{IN} \leq 23V$ | 7.6 | 8 | 8.4 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 7.6 | 8 | 8.4 | |
| Line Regulation | LNR | $10.5V \leq V_{IN} \leq 23V$, $T_J=25^{\circ}C$ | - | 42 | 175 | mV |
| | | $11V \leq V_{IN} \leq 23V$, $T_J=25^{\circ}C$ | - | 36 | 125 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 18 | 80 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 10 | 40 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4 | 6 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 5.5 | |
| Quiescent Current Change | ΔI_Q | $11V \leq V_{IN} \leq 23V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $13V \leq V_{IN} \leq 23V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 37 | 46 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 54 | - | μV |



YJ78L Series

For YJ78L09($V_{IN}=16V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|------|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 8.6 | 9 | 9.4 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $12V \leq V_{IN} \leq 24V$ | 8.55 | 9 | 9.45 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 8.55 | 9 | 9.45 | |
| Line Regulation | LNR | $12V \leq V_{IN} \leq 24V$, $T_J=25^{\circ}C$ | - | 45 | 175 | mV |
| | | $13V \leq V_{IN} \leq 24V$, $T_J=25^{\circ}C$ | - | 40 | 125 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 19 | 90 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 11 | 40 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4.1 | 6 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 5.5 | |
| Quiescent Current Change | ΔI_Q | $13V \leq V_{IN} \leq 24V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $15V \leq V_{IN} \leq 24V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 38 | 45 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 58 | - | μV |

For YJ78L10($V_{IN}=17V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|-----|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 9.6 | 10 | 10.4 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $13V \leq V_{IN} \leq 25V$ | 9.5 | 10 | 10.5 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 9.5 | 10 | 10.5 | |
| Line Regulation | LNR | $13V \leq V_{IN} \leq 25V$, $T_J=25^{\circ}C$ | - | 51 | 175 | mV |
| | | $14V \leq V_{IN} \leq 25V$, $T_J=25^{\circ}C$ | - | 42 | 125 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 20 | 90 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 11 | 40 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4.2 | 6 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 5.5 | |
| Quiescent Current Change | ΔI_Q | $14V \leq V_{IN} \leq 25V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $15V \leq V_{IN} \leq 25V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 37 | 44 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 62 | - | μV |



YJ78L Series

For YJ78L12($V_{IN}=19V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|------|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 11.5 | 12 | 12.5 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $14.5V \leq V_{IN} \leq 27V$ | 11.4 | 12 | 12.6 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 11.4 | 12 | 12.6 | |
| Line Regulation | LNR | $14.5V \leq V_{IN} \leq 27V$, $T_J=25^{\circ}C$ | - | 55 | 250 | mV |
| | | $16V \leq V_{IN} \leq 27V$, $T_J=25^{\circ}C$ | - | 49 | 200 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 22 | 100 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 13 | 50 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4.3 | 6.5 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 6 | |
| Quiescent Current Change | ΔI_Q | $16V \leq V_{IN} \leq 27V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $15V \leq V_{IN} \leq 25V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 37 | 42 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 70 | - | μV |

For YJ78L15($V_{IN}=23V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|-------|-----|-------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 14.4 | 15 | 15.6 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $17.5V \leq V_{IN} \leq 30V$ | 14.25 | 15 | 15.75 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 14.25 | 15 | 15.75 | |
| Line Regulation | LNR | $17.5V \leq V_{IN} \leq 30V$, $T_J=25^{\circ}C$ | - | 65 | 300 | mV |
| | | $19V \leq V_{IN} \leq 30V$, $T_J=25^{\circ}C$ | - | 58 | 250 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 25 | 150 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 15 | 75 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4.6 | 6.5 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 6 | |
| Quiescent Current Change | ΔI_Q | $19V \leq V_{IN} \leq 30V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $18.5V \leq V_{IN} \leq 28.5V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 34 | 39 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 82 | - | μV |



YJ78L Series

For YJ78L18($V_{IN}=26V$, $I_O=40mA$)

| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|------|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 17.3 | 18 | 18.7 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $20.5V \leq V_{IN} \leq 33V$ | 17.1 | 18 | 18.9 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 17.1 | 18 | 18.9 | |
| Line Regulation | LNR | $20.5V \leq V_{IN} \leq 33V$, $T_J=25^{\circ}C$ | - | 70 | 360 | mV |
| | | $22V \leq V_{IN} \leq 33V$, $T_J=25^{\circ}C$ | - | 64 | 300 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 27 | 180 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 19 | 90 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4.7 | 6.5 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 6 | |
| Quiescent Current Change | ΔI_Q | $22V \leq V_{IN} \leq 33V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $21.5V \leq V_{IN} \leq 31.5V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 32 | 36 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 89 | - | μV |

For YJ78L24($V_{IN}=32V$, $I_O=40mA$)

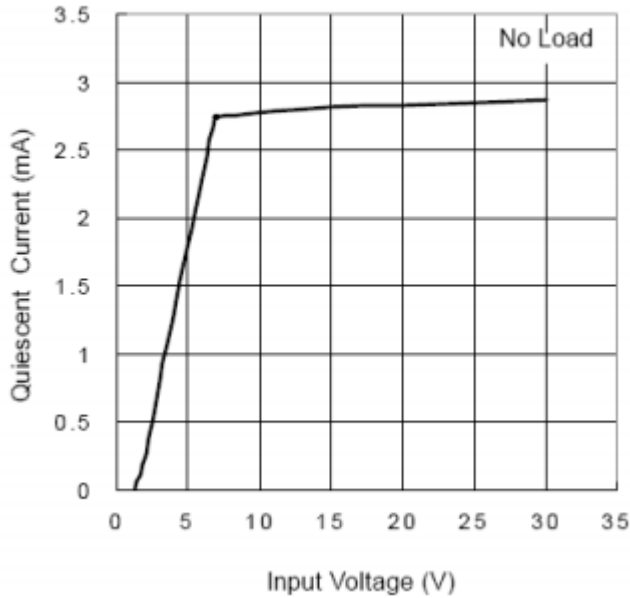
| Parameter | Symbol | Conditions | Min | Typ | Max | Units |
|--------------------------|--------------|--|------|-----|------|---------|
| Output Voltage | V_{OUT} | $T_J=25^{\circ}C$ | 23 | 24 | 25 | V |
| | | $1mA \leq I_{OUT} \leq 40mA$, $26.5V \leq V_{IN} \leq 39V$ | 22.8 | 24 | 25.2 | |
| | | $1mA \leq I_{OUT} \leq 70mA$ | 22.8 | 24 | 25.2 | |
| Line Regulation | LNR | $26.5V \leq V_{IN} \leq 39V$, $T_J=25^{\circ}C$ | - | 95 | 480 | mV |
| | | $29V \leq V_{IN} \leq 39V$, $T_J=25^{\circ}C$ | - | 78 | 400 | |
| Load Regulation | LDR | $1mA \leq I_{OUT} \leq 100mA$, $T_J=25^{\circ}C$ | - | 41 | 240 | mV |
| | | $1mA \leq I_{OUT} \leq 40mA$, $T_J=25^{\circ}C$ | - | 28 | 120 | |
| Dropout Voltage | V_{DROP} | $T_J=25^{\circ}C$ | - | 1.7 | - | V |
| Quiescent Current | I_Q | $I_{OUT}=0$, $T_J=25^{\circ}C$ | - | 4.8 | 6.5 | mA |
| | | $I_{OUT}=0$, $T_J=125^{\circ}C$ | - | - | 6 | |
| Quiescent Current Change | ΔI_Q | $28V \leq V_{IN} \leq 39V$ | - | - | 1.5 | mA |
| | | $1mA \leq I_{OUT} \leq 40mA$ | - | - | 0.1 | |
| Ripple Rejection | PSRR | $27.5V \leq V_{IN} \leq 37.5V$, $f = 120Hz$, $T_J=25^{\circ}C$ | 30 | 33 | - | dB |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$, $T_J=25^{\circ}C$ | - | 97 | - | μV |



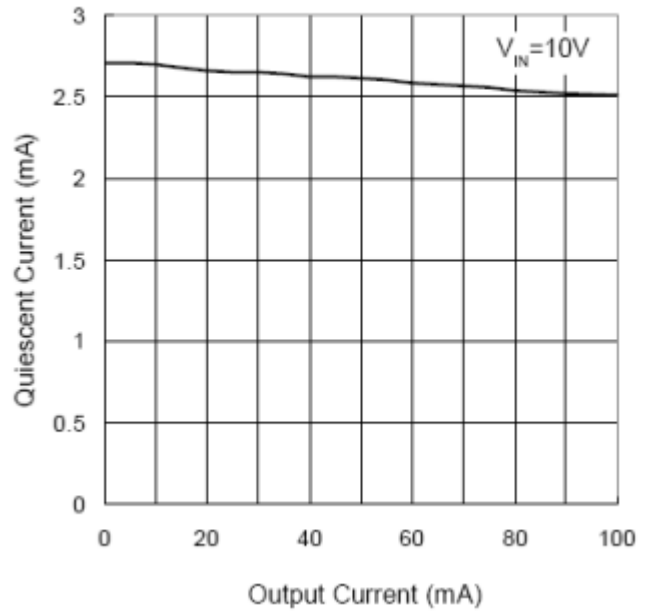
YJ78L Series

■ Typical Characteristics (78L05)

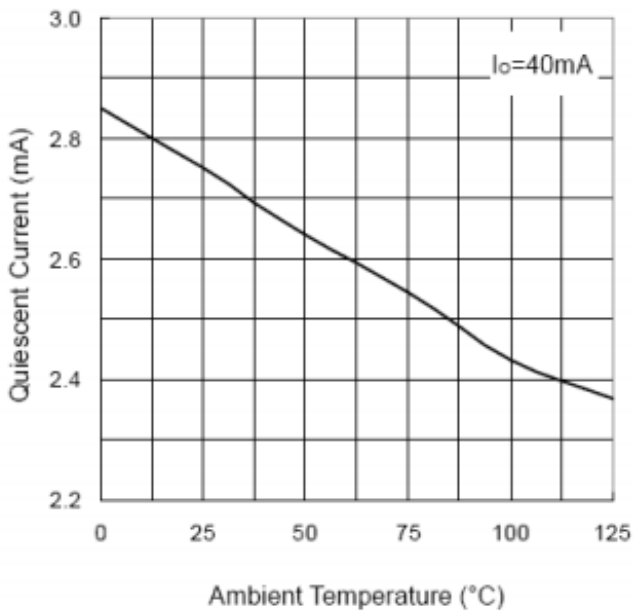
Quiescent Current vs. Input Voltage



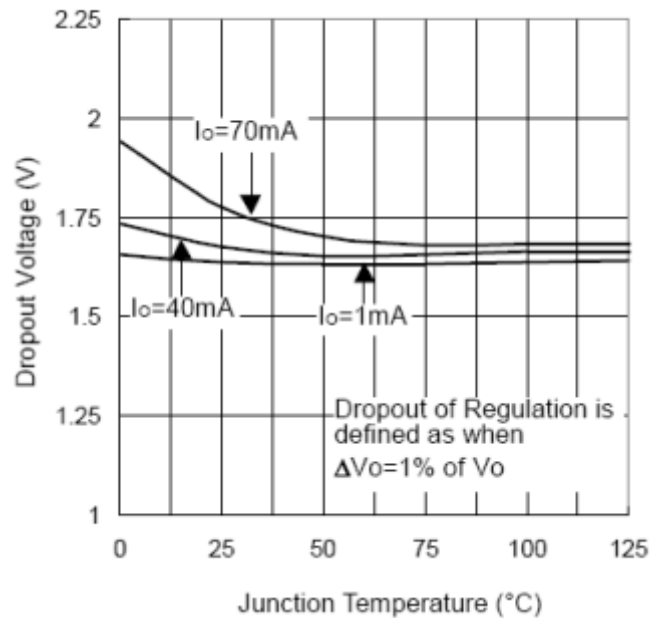
Quiescent Current vs. Output Current



Quiescent Current vs. Ambient Temperature



Dropout Voltage vs. Junction Temperature

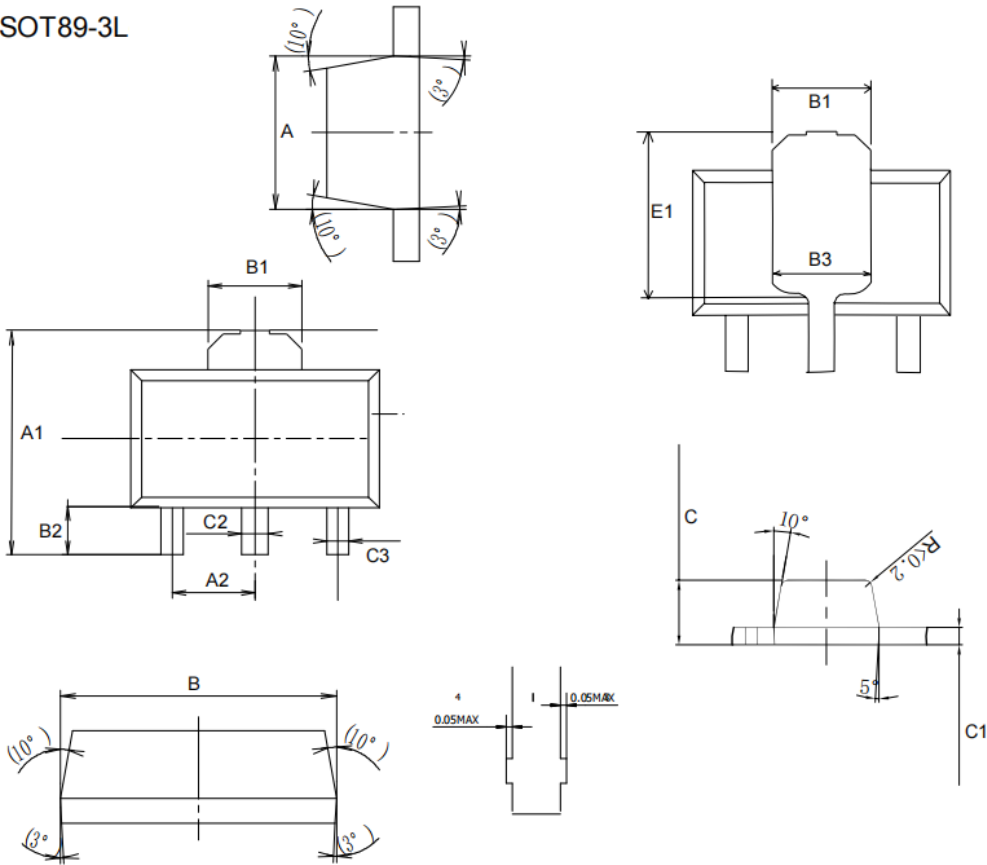




YJ78L Series

■ Package Outline Drawing

SOT89-3L



| COMMON DIMENSIONS | | | |
|--------------------------|-------|----------|-------|
| UNITS MEASURE=MILLIMETER | | | |
| SYMBOL | MIN | MID | MAX |
| A | 2.35 | 2.45 | 2.55 |
| A1 | 4.135 | 4.235 | 4.335 |
| A2 | 1.45 | 1.50 | 1.55 |
| B | 4.40 | 4.50 | 4.60 |
| B1 | | 1.55 REF | |
| B2 | 0.95 | 1.00 | 1.05 |
| B3 | | 1.63 REF | |
| C | 1.45 | 1.50 | 1.55 |
| C1 | 0.39 | 0.40 | 0.41 |
| C2 | 0.4 | 0.48 | 0.55 |
| C3 | 0.35 | 0.4 | 0.45 |
| E1 | 2.65 | 2.75 | 2.85 |



YJ78L Series

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