



## L79M00T Series

### -5 to -12V 0.5A 3-Pin Voltage Regulators

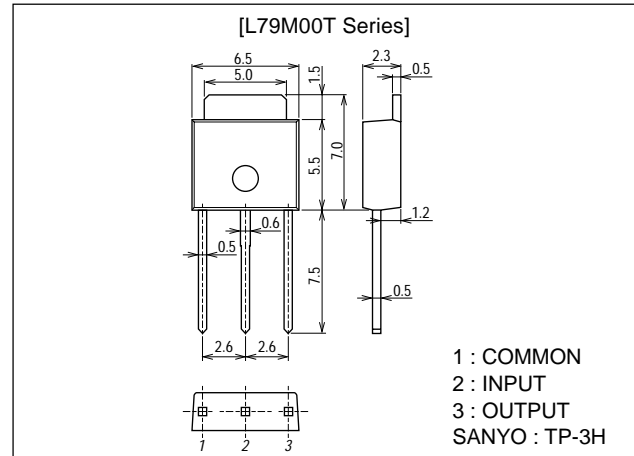
#### Features

- Output voltage  
L79M05T : -5V L79M06T : -6V L79M08T : -8V  
L79M09T : -9V L79M10T : -10V L79M12T : -12V
- 500mA output.
- Small-sized power package TP-3H permitting the equipment to be made compact.
- The allowable power dissipation can be increased by being surface-mounted on the board.
- Capable of being mounted in a variety of methods because of various lead forming versions available.
- On-chip protectors (overcurrent limiter, ASO protector, thermal protector).
- Can meet tape-used automatic mounting requirements.

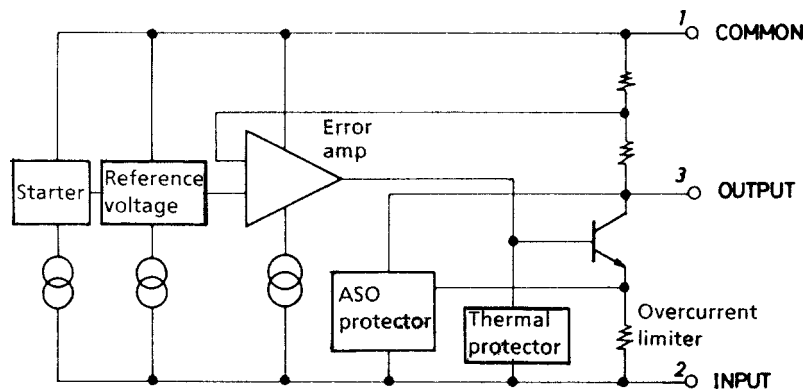
#### Package Dimensions

unit:mm

3110



#### Equivalent Circuit



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# L79M00T Series

## Specifications

[Common to L79M00T series]

Maximum Ratings at  $T_a = 25^\circ\text{C}$

| Parameter                   | Symbol        | Conditions        | Ratings     | Unit             |
|-----------------------------|---------------|-------------------|-------------|------------------|
| Maximum Supply Voltage      | $V_{CC\ max}$ | -5 to -12V output | -35         | V                |
| Allowable Power Dissipation | $P_d\ max$    |                   | 1.0         | W                |
| Operating Temperature       | $T_{opr}$     |                   | -30 to +80  | $^\circ\text{C}$ |
| Storage Temperature         | $T_{stg}$     |                   | -40 to +150 | $^\circ\text{C}$ |

[L79M05T]

Recommended Operating Conditions at  $T_a = 25^\circ\text{C}$

| Parameter      | Symbol    | Conditions | Ratings     | Unit |
|----------------|-----------|------------|-------------|------|
| Input Voltage  | $V_{IN}$  |            | -20 to -7.5 | V    |
| Output Current | $I_{OUT}$ |            | 5 to 500    | mA   |

Operating Characteristics at  $T_a = 25^\circ\text{C}$ ,  $V_{IN} = -10\text{V}$ ,  $I_{OUT} = 350\text{mA}$ ,  $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$

| Parameter                            | Symbol                       | Conditions   | Ratings |      |       | Unit          |
|--------------------------------------|------------------------------|--|---------|------|-------|---------------|
|                                      |                              |  | min     | typ  | max   |               |
| Output Voltage                       | $V_{OUT}$                    | $T_j = 25^\circ\text{C}$   | -5.2    | -5.0 | -4.8  | V             |
| Line Regulation                      | $\Delta V_o\ \text{LINE}$    | $T_j = 25^\circ\text{C}$ , $-25\text{V} \leq V_{IN} \leq -7\text{V}$   |         | 7.0  | 50    | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $-18\text{V} \leq V_{IN} \leq -8\text{V}$   |         | 3.0  | 30    | mV            |
| Load Regulation                      | $\Delta V_o\ \text{LOAD}$    | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 500\text{mA}$   |         | 10   | 100   | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$   |         | 5    |       | mV            |
| Output Voltage                       | $V_{OUT}$                    | $-25\text{V} \leq V_{IN} \leq -7\text{V}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$                              | -5.25   |      | -4.75 | V             |
| Current Dissipation                  | $I_{CC}$                     | $T_j = 25^\circ\text{C}$   |         | 1.0  | 2.5   | mA            |
| Current Dissipation Variation (Line) | $\Delta I_{CC}\ \text{LINE}$ | $-25\text{V} \leq V_{IN} \leq -8\text{V}$  |         |      | 1.0   | mA            |
| Current Dissipation Variation (Load) | $\Delta I_{CC}\ \text{LOAD}$ | $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$  |         |      | 0.4   | mA            |
| Output Noise Voltage                 | $V_{NO}$                     | $10\text{Hz} \leq f \leq 100\text{kHz}$  |         | 125  |       | $\mu\text{V}$ |
| Ripple Rejection                     | Rrej                         | $f = 120\text{Hz}$ , $-18\text{V} \leq V_{IN} \leq -8\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 100\text{mA}$ | 50      |      |       | dB            |
|                                      |                              | $f = 120\text{Hz}$ , $-18\text{V} \leq V_{IN} \leq -8\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 300\text{mA}$ | 50      | 65   |       | dB            |
| Minimum Input-Output Voltage Drop    | $V_{DROP}$                   | $T_j = 25^\circ\text{C}$ , $I_{OUT} = 350\text{mA}$  |         | 1.1  |       | V             |
| Short Current                        | $I_{OS}$                     | $T_j = 25^\circ\text{C}$ , $V_{IN} = -30\text{V}$  |         | 130  |       | mA            |
| Peak Output Current                  | $I_{OP}$                     |  |         | 800  |       | mA            |

[L79M06T]

Recommended Operating Conditions at  $T_a = 25^\circ\text{C}$

| Parameter      | Symbol    | Conditions | Ratings     | Unit |
|----------------|-----------|------------|-------------|------|
| Input Voltage  | $V_{IN}$  |            | -21 to -8.5 | V    |
| Output Current | $I_{OUT}$ |            | 5 to 500    | mA   |

Operating Characteristics at  $T_a = 25^\circ\text{C}$ ,  $V_{IN} = -11\text{V}$ ,  $I_{OUT} = 350\text{mA}$ ,  $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$

| Parameter                            | Symbol                       | Conditions   | Ratings |      |       | Unit          |
|--------------------------------------|------------------------------|--|---------|------|-------|---------------|
|                                      |                              |  | min     | typ  | max   |               |
| Output Voltage                       | $V_{OUT}$                    | $T_j = 25^\circ\text{C}$   | -6.25   | -6.0 | -5.75 | V             |
| Line Regulation                      | $\Delta V_o\ \text{LINE}$    | $T_j = 25^\circ\text{C}$ , $-25\text{V} \leq V_{IN} \leq -8\text{V}$   |         | 7.0  | 60    | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $-19\text{V} \leq V_{IN} \leq -9\text{V}$   |         | 3.0  | 40    | mV            |
| Load Regulation                      | $\Delta V_o\ \text{LOAD}$    | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 500\text{mA}$   |         | 10   | 120   | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$   |         | 5    |       | mV            |
| Output Voltage                       | $V_{OUT}$                    | $-25\text{V} \leq V_{IN} \leq -8\text{V}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$                              | -6.3    |      | -5.7  | V             |
| Current Dissipation                  | $I_{CC}$                     | $T_j = 25^\circ\text{C}$   |         | 1.0  | 2.5   | mA            |
| Current Dissipation Variation (Line) | $\Delta I_{CC}\ \text{LINE}$ | $-25\text{V} \leq V_{IN} \leq -9\text{V}$  |         |      | 1.0   | mA            |
| Current Dissipation Variation (Load) | $\Delta I_{CC}\ \text{LOAD}$ | $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$  |         |      | 0.4   | mA            |
| Output Noise Voltage                 | $V_{NO}$                     | $10\text{Hz} \leq f \leq 100\text{kHz}$  |         | 150  |       | $\mu\text{V}$ |
| Ripple Rejection                     | Rrej                         | $f = 120\text{Hz}$ , $-19\text{V} \leq V_{IN} \leq -9\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 100\text{mA}$ | 50      |      |       | dB            |
|                                      |                              | $f = 120\text{Hz}$ , $-19\text{V} \leq V_{IN} \leq -9\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 300\text{mA}$ | 50      | 65   |       | dB            |
| Minimum Input-Output Voltage Drop    | $V_{DROP}$                   | $T_j = 25^\circ\text{C}$ , $I_{OUT} = 350\text{mA}$  |         | 1.1  |       | V             |
| Short Current                        | $I_{OS}$                     | $T_j = 25^\circ\text{C}$ , $V_{IN} = -30\text{V}$  |         | 130  |       | mA            |
| Peak Output Current                  | $I_{OP}$                     |  |         | 800  |       | mA            |

## L79M00T Series

### [L79M08T]

#### Recommended Operating Conditions at Ta = 25°C

| Parameter      | Symbol           | Conditions | Ratings    | Unit |
|----------------|------------------|------------|------------|------|
| Input Voltage  | V <sub>IN</sub>  |            | -23 to -11 | V    |
| Output Current | I <sub>OUT</sub> |            | 5 to 500   | mA   |

#### Operating Characteristics at Ta = 25°C, V<sub>IN</sub> = -14V, I<sub>OUT</sub> = 350mA, C<sub>IN</sub> = 2μF, C<sub>OUT</sub> = 1μF

| Parameter                            | Symbol                | Conditions  | Ratings |      |      | Unit |
|--------------------------------------|-----------------------|---|---------|------|------|------|
|                                      |                       |   | min     | typ  | max  |      |
| Output Voltage                       | V <sub>OUT</sub>      | T <sub>j</sub> = 25°C   | -8.3    | -8.0 | -7.7 | V    |
| Line Regulation                      | ΔV <sub>O</sub> LINE  | T <sub>j</sub> = 25°C, -25V ≤ V <sub>IN</sub> ≤ -10.5V  |         | 8.0  | 80   | mV   |
|                                      |                       | T <sub>j</sub> = 25°C, -21V ≤ V <sub>IN</sub> ≤ -11V  |         | 4.0  | 50   | mV   |
| Load Regulation                      | ΔV <sub>O</sub> LOAD  | T <sub>j</sub> = 25°C, 5mA ≤ I <sub>OUT</sub> ≤ 500mA   |         | 11   | 160  | mV   |
|                                      |                       | T <sub>j</sub> = 25°C, 5mA ≤ I <sub>OUT</sub> ≤ 350mA   |         | 6    |      | mV   |
| Output Voltage                       | V <sub>OUT</sub>      | -25V ≤ V <sub>IN</sub> ≤ -10.5V, 5mA ≤ I <sub>OUT</sub> ≤ 350mA                               | -8.4    |      | -7.6 | V    |
| Current Dissipation                  | I <sub>CC</sub>       | T <sub>j</sub> = 25°C   |         | 1.0  | 2.5  | mA   |
| Current Dissipation Variation (Line) | ΔI <sub>CC</sub> LINE | -25V ≤ V <sub>IN</sub> ≤ -10.5V   |         |      | 1.0  | mA   |
| Current Dissipation Variation (Load) | ΔI <sub>CC</sub> LOAD | 5mA ≤ I <sub>OUT</sub> ≤ 350mA  |         |      | 0.4  | mA   |
| Output Noise Voltage                 | V <sub>NO</sub>       | 10Hz ≤ f ≤ 100kHz   |         | 200  |      | μV   |
| Ripple Rejection                     | R <sub>rej</sub>      | f = 120Hz, -21.5V ≤ V <sub>IN</sub> ≤ -11.5V, T <sub>j</sub> = 25°C, I <sub>OUT</sub> = 100mA | 50      |      |      | dB   |
|                                      |                       | f = 120Hz, -21.5V ≤ V <sub>IN</sub> ≤ -11.5V, T <sub>j</sub> = 25°C, I <sub>OUT</sub> = 300mA | 50      | 64   |      | dB   |
| Minimum Input-Output Voltage Drop    | V <sub>DROP</sub>     | T <sub>j</sub> = 25°C, I <sub>OUT</sub> = 350mA   |         | 1.1  |      | V    |
| Short Current                        | I <sub>OS</sub>       | T <sub>j</sub> = 25°C, V <sub>IN</sub> = -30V   |         | 130  |      | mA   |
| Peak Output Current                  | I <sub>OP</sub>       |   |         | 800  |      | mA   |

### [L79M09T]

#### Recommended Operating Conditions at Ta = 25°C

| Parameter      | Symbol           | Conditions | Ratings    | Unit |
|----------------|------------------|------------|------------|------|
| Input Voltage  | V <sub>IN</sub>  |            | -25 to -12 | V    |
| Output Current | I <sub>OUT</sub> |            | 5 to 500   | mA   |

#### Operating Characteristics at Ta = 25°C, V<sub>IN</sub> = -16V, I<sub>OUT</sub> = 350mA, C<sub>IN</sub> = 2μF, C<sub>OUT</sub> = 1μF

| Parameter                            | Symbol                | Conditions  | Ratings |      |      | Unit |
|--------------------------------------|-----------------------|---|---------|------|------|------|
|                                      |                       |   | min     | typ  | max  |      |
| Output Voltage                       | V <sub>OUT</sub>      | T <sub>j</sub> = 25°C   | -9.4    | -9.0 | -8.6 | V    |
| Line Regulation                      | ΔV <sub>O</sub> LINE  | T <sub>j</sub> = 25°C, -25V ≤ V <sub>IN</sub> ≤ -11.5V  |         | 8.0  | 80   | mV   |
|                                      |                       | T <sub>j</sub> = 25°C, -20V ≤ V <sub>IN</sub> ≤ -12V  |         | 4.0  | 50   | mV   |
| Load Regulation                      | ΔV <sub>O</sub> LOAD  | T <sub>j</sub> = 25°C, 5mA ≤ I <sub>OUT</sub> ≤ 500mA   |         | 12   | 200  | mV   |
|                                      |                       | T <sub>j</sub> = 25°C, 5mA ≤ I <sub>OUT</sub> ≤ 350mA   |         | 7    |      | mV   |
| Output Voltage                       | V <sub>OUT</sub>      | -25V ≤ V <sub>IN</sub> ≤ -11.5V, 5mA ≤ I <sub>OUT</sub> ≤ 350mA                               | -9.5    |      | -8.5 | V    |
| Current Dissipation                  | I <sub>CC</sub>       | T <sub>j</sub> = 25°C   |         | 1.0  | 2.5  | mA   |
| Current Dissipation Variation (Line) | ΔI <sub>CC</sub> LINE | -25V ≤ V <sub>IN</sub> ≤ -11.5V   |         |      | 1.0  | mA   |
| Current Dissipation Variation (Load) | ΔI <sub>CC</sub> LOAD | 5mA ≤ I <sub>OUT</sub> ≤ 350mA  |         |      | 0.4  | mA   |
| Output Noise Voltage                 | V <sub>NO</sub>       | 10Hz ≤ f ≤ 100kHz   |         | 225  |      | μV   |
| Ripple Rejection                     | R <sub>rej</sub>      | f = 120Hz, -22.5V ≤ V <sub>IN</sub> ≤ -12.5V, T <sub>j</sub> = 25°C, I <sub>OUT</sub> = 100mA | 50      |      |      | dB   |
|                                      |                       | f = 120Hz, -22.5V ≤ V <sub>IN</sub> ≤ -12.5V, T <sub>j</sub> = 25°C, I <sub>OUT</sub> = 300mA | 50      | 63   |      | dB   |
| Minimum Input-Output Voltage Drop    | V <sub>DROP</sub>     | T <sub>j</sub> = 25°C, I <sub>OUT</sub> = 350mA   |         | 1.1  |      | V    |
| Short Current                        | I <sub>OS</sub>       | T <sub>j</sub> = 25°C, V <sub>IN</sub> = -30V   |         | 130  |      | mA   |
| Peak Output Current                  | I <sub>OP</sub>       |   |         | 800  |      | mA   |

## L79M00T Series

### [L79M10T]

#### Recommended Operating Conditions at $T_a = 25^\circ\text{C}$

| Parameter      | Symbol    | Conditions | Ratings    | Unit |
|----------------|-----------|------------|------------|------|
| Input Voltage  | $V_{IN}$  |            | -25 to -13 | V    |
| Output Current | $I_{OUT}$ |            | 5 to 500   | mA   |

#### Operating Characteristics at $T_a = 25^\circ\text{C}$ , $V_{IN} = -17\text{V}$ , $I_{OUT} = 350\text{mA}$ , $C_{IN} = 2\mu\text{F}$ , $C_{OUT} = 1\mu\text{F}$

| Parameter                            | Symbol                       | Conditions  | Ratings |     |      | Unit          |
|--------------------------------------|------------------------------|---|---------|-----|------|---------------|
|                                      |                              |   | min     | typ | max  |               |
| Output Voltage                       | $V_{OUT}$                    | $T_j = 25^\circ\text{C}$  | -10.4   | -10 | -9.6 | V             |
| Line Regulation                      | $\Delta V_o \text{ LINE}$    | $T_j = 25^\circ\text{C}$ , $-25\text{V} \leq V_{IN} \leq -12.5\text{V}$   |         | 9.0 | 80   | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $-22\text{V} \leq V_{IN} \leq -13\text{V}$   |         | 5.0 | 50   | mV            |
| Load Regulation                      | $\Delta V_o \text{ LOAD}$    | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 500\text{mA}$  |         | 12  | 200  | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$  |         | 7   |      | mV            |
| Output Voltage                       | $V_{OUT}$                    | $-25\text{V} \leq V_{IN} \leq -12.5\text{V}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$                                | -10.5   |     | -9.5 | V             |
| Current Dissipation                  | $I_{CC}$                     | $T_j = 25^\circ\text{C}$  |         | 1.0 | 2.5  | mA            |
| Current Dissipation Variation (Line) | $\Delta I_{CC} \text{ LINE}$ | $-25\text{V} \leq V_{IN} \leq -12.5\text{V}$  |         |     | 1.0  | mA            |
| Current Dissipation Variation (Load) | $\Delta I_{CC} \text{ LOAD}$ | $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$   |         |     | 0.4  | mA            |
| Output Noise Voltage                 | $V_{NO}$                     | $10\text{Hz} \leq f \leq 100\text{kHz}$   |         | 250 |      | $\mu\text{V}$ |
| Ripple Rejection                     | Rrej                         | $f = 120\text{Hz}$ , $-23.5\text{V} \leq V_{IN} \leq -13.5\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 100\text{mA}$ | 50      |     |      | dB            |
|                                      |                              | $f = 120\text{Hz}$ , $-23.5\text{V} \leq V_{IN} \leq -13.5\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 300\text{mA}$ | 50      | 63  |      | dB            |
| Minimum Input-Output Voltage Drop    | $V_{DROP}$                   | $T_j = 25^\circ\text{C}$ , $I_{OUT} = 350\text{mA}$   |         | 1.1 |      | V             |
| Short Current                        | $I_{OS}$                     | $T_j = 25^\circ\text{C}$ , $V_{IN} = -30\text{V}$   |         | 130 |      | mA            |
| Peak Output Current                  | $I_{OP}$                     |   |         | 800 |      | mA            |

### [L79M12T]

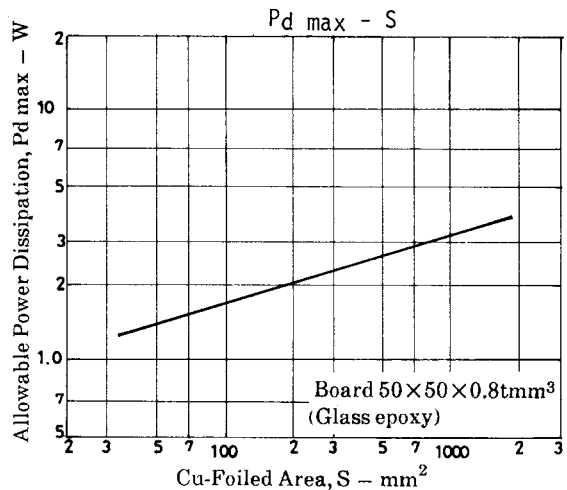
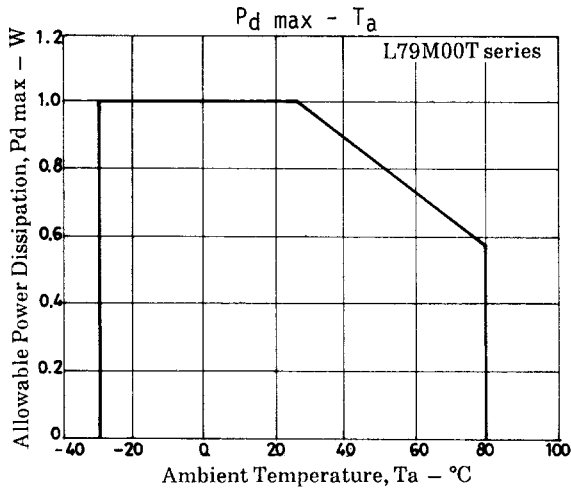
#### Recommended Operating Conditions at $T_a = 25^\circ\text{C}$

| Parameter      | Symbol    | Conditions | Ratings    | Unit |
|----------------|-----------|------------|------------|------|
| Input Voltage  | $V_{IN}$  |            | -25 to -15 | V    |
| Output Current | $I_{OUT}$ |            | 5 to 500   | mA   |

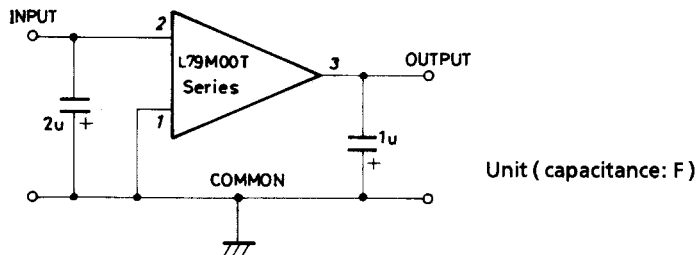
#### Operating Characteristics at $T_a = 25^\circ\text{C}$ , $V_{IN} = -19\text{V}$ , $I_{OUT} = 350\text{mA}$ , $C_{IN} = 2\mu\text{F}$ , $C_{OUT} = 1\mu\text{F}$

| Parameter                            | Symbol                       | Conditions  | Ratings |     |       | Unit          |
|--------------------------------------|------------------------------|---|---------|-----|-------|---------------|
|                                      |                              |   | min     | typ | max   |               |
| Output Voltage                       | $V_{OUT}$                    | $T_j = 25^\circ\text{C}$  | -12.5   | -12 | -11.5 | V             |
| Line Regulation                      | $\Delta V_o \text{ LINE}$    | $T_j = 25^\circ\text{C}$ , $-30\text{V} \leq V_{IN} \leq -14.5\text{V}$   |         | 9.0 | 80    | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $-25\text{V} \leq V_{IN} \leq -15\text{V}$   |         | 5.0 | 50    | mV            |
| Load Regulation                      | $\Delta V_o \text{ LOAD}$    | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 500\text{mA}$  |         | 9   | 240   | mV            |
|                                      |                              | $T_j = 25^\circ\text{C}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$  |         | 6   |       | mV            |
| Output Voltage                       | $V_{OUT}$                    | $-30\text{V} \leq V_{IN} \leq -14.5\text{V}$ , $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$                            | -12.6   |     | -11.4 | V             |
| Current Dissipation                  | $I_{CC}$                     | $T_j = 25^\circ\text{C}$  |         | 1.6 | 3.5   | mA            |
| Current Dissipation Variation (Line) | $\Delta I_{CC} \text{ LINE}$ | $-30\text{V} \leq V_{IN} \leq -14.5\text{V}$  |         |     | 1.0   | mA            |
| Current Dissipation Variation (Load) | $\Delta I_{CC} \text{ LOAD}$ | $5\text{mA} \leq I_{OUT} \leq 350\text{mA}$   |         |     | 0.4   | mA            |
| Output Noise Voltage                 | $V_{NO}$                     | $10\text{Hz} \leq f \leq 100\text{kHz}$   |         | 300 |       | $\mu\text{V}$ |
| Ripple Rejection                     | Rrej                         | $f = 120\text{Hz}$ , $-25\text{V} \leq V_{IN} \leq -15\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 100\text{mA}$ | 50      |     |       | dB            |
|                                      |                              | $f = 120\text{Hz}$ , $-25\text{V} \leq V_{IN} \leq -15\text{V}$ , $T_j = 25^\circ\text{C}$ , $I_{OUT} = 300\text{mA}$ | 50      | 72  |       | dB            |
| Minimum Input-Output Voltage Drop    | $V_{DROP}$                   | $T_j = 25^\circ\text{C}$ , $I_{OUT} = 350\text{mA}$   |         | 1.1 |       | V             |
| Short Current                        | $I_{OS}$                     | $T_j = 25^\circ\text{C}$ , $V_{IN} = -30\text{V}$   |         | 130 |       | mA            |
| Peak Output Current                  | $I_{OP}$                     |   |         | 800 |       | mA            |

## L79M00T Series



### Specified Test Circuit (Common to L79M00T series)



Note) V<sub>IN</sub> max must be in the range specified above, with regulation, etc. considered.

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