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LM79XX

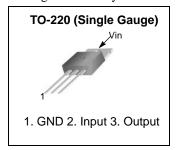
3-Terminal 1A Negative Voltage Regulator

Features

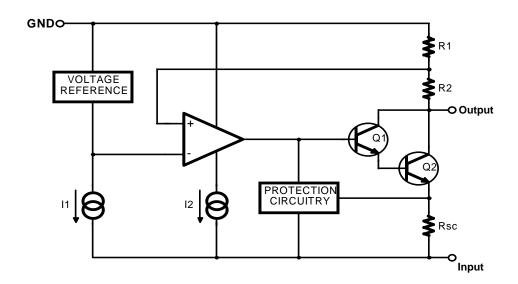
- Output Current in Excess of 1A
- Output Voltages of -5, -6, -8, -9, -10, -12, -15, -18 and -24V
- Internal Thermal Overload Protection
- Short Circuit Protection
- Output Transistor Safe Operating Area Compensation

Description

The LM79XX series of three terminal negative regulators are available in TO-220 package and with several fixed output voltages, making them useful in a wide range of applications. Each type employs internal current limiting, thermal shut down and safe operating area protection, making it essentially indestructible.



Internal Block Digram



Absolute Maximum Ratings

| Parameter | Symbol | Value | Unit |
|--|-------------------|------------|------|
| Input Voltage | VI | -35 | V |
| Thermal Resistance Junction-Case (Note1) | R _θ JC | 5 | °C/W |
| Thermal Resistance Junction-Air (Note1, 2) | RθJA | 65 | C/VV |
| Operating Temperature Range | TOPR | 0 ~ +125 | °C |
| Storage Temperature Range | TSTG | -65 ~ +150 | °C |

Note:

- 1. Thermal resistance test board Size: 76.2mm * 114.3mm * 1.6mm(1S0P) JEDEC standard: JESD51-3, JESD51-7
- 2. Assume no ambient airflow

Electrical Characteristics (LM7905)

(V_I = -10V, I_O = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, C_I =2.2 μ F, C_O =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|--|------------------------------|-------|-------|-------|-------|
| | | VO IO = 5mA to 1A PO < 15W | | -4.8 | -5.0 | -5.2 | |
| Output Voltage | Vo | | | -4.75 | -5.0 | -5.25 | V |
| Line Pagulation (Note2) | 4)/0 | T _J = +25°C | VI = -7V to -25V | | 35 | 100 | mV |
| Line Regulation (Note3) | ΔVO | 1J = +25 C | V _I = -8V to -12V | =. | 8 | 50 | IIIV |
| Load Regulation (Note3) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5a$ | A | - | 10 | 100 | mV |
| Load Regulation (Notes) | ΔνΟ | TJ =+25°C IO = 250mA to 750mA | | - | 3 | 50 | IIIV |
| Quiescent Current | lQ | T _J =+25°C | | - | 3 | 6 | mA |
| Quiescent Current Change | Alo | IO = 5mA to 1A | | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔlQ | VI = -8V to -25V | | - | 0.1 | 0.8 | IIIA |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | - 0.4 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A =+25°C | кНz | - | 40 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | TJ = +25°C IO = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J =+25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ =+25°C | | - | 2.2 | - | Α |

Note

3. Load and line regulation are specified at constant junction temperature. Changes in VO due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7906) (Continued)

(VI = -11V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|--|--|-------|------|-------|--------|
| | | T _J = +25°C | | -5.75 | -6 | -6.25 | |
| Output Voltage | Vo | | IO = 5mA to 1A, PO ≤ 15W VI = -9V to -21V | | -6 | -6.3 | V |
| Line Regulation (Note1) | 4\/0 | T _J = +25°C | VI = -8V to -25V | - | 10 | 120 | mV |
| Line Regulation (Note1) | ΔVO | 1J = +25 C | V _I = -9V to -13V | - | 5 | 60 | IIIV |
| Load Regulation (Note1) | ΔVΩ | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5A$ | 4 | - | 10 | 120 | mV |
| Load Regulation (Note 1) | Δ۷Ο | TJ =+25°C IO = 250mA to 750mA | | - | 3 | 60 | - IIIV |
| Quiescent Current | IQ | TJ =+25°C | | - | 3 | 6 | mA |
| Quincant Current Change | Ma | $I_O = 5mA$ to $1A$ | | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔlQ | VI = -8V to -25V | | - | 0.1 | 1.3 | |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | -0.5 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A =+25°C | Hz | - | 130 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ = +25°C | | - | 2.2 | - | А |

Note

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7908) (Continued)

(VI = -14V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|---|---------------------------------|------|------|------|-------|
| | | VO IO = 5mA to 1A PO < 15W | | -7.7 | -8 | -8.3 | |
| Output Voltage | Vo | | | -7.6 | -8 | -8.4 | V |
| Line Regulation (Note1) | ΔVο | T 125°C | V _I = -10.5V to -25V | - | 10 | 160 | mV |
| Line Regulation (Note1) | ΔνΟ | TJ = +25°C | V _I = -11V to -17V | - | 5 | 80 | IIIV |
| Load Regulation (Note1) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.8$ | 5A | - | 12 | 160 | mV |
| Load (Note I) | ΔνΟ | TJ =+25°C IO = 250mA to 750mA | | - | 4 | 80 | IIIV |
| Quiescent Current | IQ | T _J =+25°C | | - | 3 | 6 | mA |
| Quioccont Current Change | Alo | $I_O = 5mA \text{ to } 1A$ | 1 | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔlQ | VI = -10.5V to | ·25V | - | 0.1 | 1 | ША |
| Temperature Coefficient of VD | ΔVo/ΔΤ | IO = 5mA | | - | -0.6 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100 T _A =+25°C |)kHz | - | 175 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ = +25°C | T _J = +25°C | | 2.2 | - | А |

Note

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7909) (Continued)

(VI = -15V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|--|--|------|------|------|-------|
| | | T _J = +25°C | | -8.7 | -9.0 | -9.3 | |
| Output Voltage | Vo | | IO = 5mA to 1A, PO ≤ 15W VI = -1.5V to -23V | | -9.0 | -9.4 | V |
| Line Regulation (Note1) | ΔVο | TJ = +25°C | V _I = -11.5V to -26V | - | 10 | 180 | mV |
| Line Regulation (Note1) | ΔνΟ | 1J = +25 C | V _I = -12V to -18V | - | 5 | 90 | IIIV |
| Load Regulation (Note1) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5A$ | Ą | - | 12 | 180 | mV |
| Load Negdiation (Note I) | ΔνΟ | TJ = +25°C IO = 250mA to 750mA | | - | 4 | 90 | IIIV |
| Quiescent Current | IQ | T _J = +25°C | | - | 3 | 6 | mA |
| Quiescent Current Change | ΔlQ | $I_O = 5mA$ to $1A$ | | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔIQ | V _I = -11.5V to -2 | 6V | - | 0.1 | 1 | IIIA |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | -0.6 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A = +25°C | Hz | - | 175 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ = +25°C | | - | 2.2 | - | Α |

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7910) (Continued)

(VI = -17V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|---|---------------------------------|------|------|-------|-------|
| | | T _J = +25°C | T _J = +25°C | | -10 | -10.4 | |
| Output Voltage | Vo | IO = 5mA to 1A, Pd ≤ 15W VI = -12V to -28 | | -9.5 | -10 | -10.5 | V |
| Line Regulation (Note1) | ΔVο | T _J = +25°C | V _I = -12.5V to -28V | - | 12 | 200 | mV |
| Line Regulation (Note1) | ΔνΟ | 1J = +25 C | V _I = -14V to -20V | - | 6 | 100 | 1117 |
| Load Regulation (Note1) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5A$ | 4 | - | 12 | 200 | mV |
| Load Regulation (Note I) | ΔνΟ | T _J = +25°C I _O = 250mA to 750mA | | - | 4 | 100 | |
| Quiescent Current | IQ | T _J = +25°C | | - | 3 | 6 | mA |
| Ouissant Current Change | A.I.o. | IO = 5mA to 1A | | - | 0.05 | 0.5 | A |
| Quiescent Current Change | ΔlQ | V _I = -12.5V to -2 | 8V | - | 0.1 | 1 mA | |
| Temperature Coefficient of VO | ΔVο/ΔΤ | IO = 5mA | | • | -1 | - | mV/°C |
| Output Noise Voltage | VN | 10Hz ≤ f ≤ 100kH T _A =+25°C | Ηz | - | 280 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | T _J = +25°C | | - | 2.2 | - | Α |

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7912) (Continued)

(VI = -19V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|--|---|-------|------|-------|--------|
| | | T _J = +25°C | | -11.5 | -12 | -12.5 | |
| Output Voltage | Vo | | IO = 5mA to 1A, PO ≤ 15W VI = -15.5V to -27V | | -12 | -12.6 | V |
| Line Regulation (Note1) | 41/0 | T _J = +25°C | VI = -14.5V to -30V | - | 12 | 240 | mV |
| Line Regulation (Note1) | ΔVO | 1J = +25°C | V _I = -16V to -22V | - | 6 | 120 | IIIV |
| Load Regulation (Note1) | 11/0 | T _J = +25°C I _O = 5mA to 1.5A | 4 | - | 12 | 240 | m\/ |
| Load Regulation (Note1) | ΔVΟ | TJ = +25°C IO = 250mA to 750mA | | - | 4 | 120 | 120 mV |
| Quiescent Current | IQ | T _J = +25°C | | - | 3 | 6 | mA |
| Quioscont Current Change | Alo. | IO = 5mA to 1A | | - | 0.05 | 0.5 | mΛ |
| Quiescent Current Change | ΔlQ | $V_I = -14.5V \text{ to } -3$ | 0V | - | 0.1 | 1 | — mA |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | -0.8 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A = +25°C | Hz | - | 200 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ = +25°C | | - | 2.2 | - | Α |

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7915) (Continued)

(VI = -23V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|---|---|-------|-------|--------|-------|
| | | T _J = +25°C | | -14.4 | -15 | -15.6 | |
| Output Voltage | Vo | | IO = 5mA to 1A, PO ≤ 15W VI = -18V to -30V | | -15 | -15.75 | V |
| Line Regulation (Note1) | ΔVο | T _J = +25°C | VI = -17.5V to -30V | - | 12 | 300 | mV |
| Line Regulation (Note1) | ΔνΟ | 1J = +25 C | V _I = -20V to -26V | - | 6 | 150 | IIIV |
| Load Regulation (Note1) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5a$ | A | - | 12 | 300 | mV |
| Load Regulation (Note I) | TJ = | T _J = +25°C I _O = 250mA to 750mA | | - | 4 | 150 | IIIV |
| Quiescent Current | IQ | T _J = +25°C | | - | 3 | 6 | mA |
| Quincant Current Change | A.I.O. | $I_O = 5mA$ to $1A$ | | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔlQ | $V_I = -17.5V \text{ to } -3$ | 30V | - | 0.1 1 | ША | |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | -0.9 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A =+25°C | kHz | - | 250 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ = +25°C | | - | 2.2 | - | Α |

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (LM7918) (Continued)

(VI = -27V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|--|-------------------------------|-------|------|-------|-------|
| | | VO IO = 5mΔ to 1Δ PO < 15W | | -17.3 | -18 | -18.7 | |
| Output Voltage | Vo | | | -17.1 | -18 | -18.9 | V |
| Line Regulation (Note1) | ΔVο | T _J = +25°C | VI = -21V to -33V | - | 15 | 360 | mV |
| Line Regulation (Note I) | ΔνΟ | 1J = +25 C | V _I = -24V to -30V | - | 8 | 180 | IIIV |
| Load Regulation (Note1) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5A$ | Ą | - | 15 | 360 | mV |
| Load (Note I) | ΔνΟ | TJ = +25°C IO = 250mA to 750mA | | - | 5 | 180 | IIIV |
| Quiescent Current | IQ | T _J = +25°C | | - | 3 | 6 | mA |
| Quioccont Current Change | Alo | IO = 5mA to 1A | | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔlQ | VI = -21V to -33\ | / | - | 0.1 | 1 | ША |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | -1 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A = +25°C | Hz | - | 300 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | T _J = +25°C | | - | 2.2 | - | Α |

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

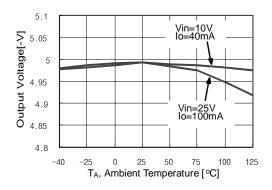
Electrical Characteristics (LM7924) (Continued)

(VI = -33V, IO = 500mA, 0° C \leq TJ \leq +125 $^{\circ}$ C, CI =2.2 μ F, CO =1 μ F, unless otherwise specified.)

| Parameter | Symbol | Conditions | | Min. | Тур. | Max. | Unit |
|-------------------------------|--------|--|---|------|------|-------|--------|
| | | T _J = +25°C | | -23 | -24 | -25 | |
| Output Voltage | Vo | | IO = 5mA to 1A, PO ≤ 15W VI = -27V to -38V | | -24 | -25.2 | V |
| Line Regulation (Note1) | 41/0 | T _J = +25°C | VI = -27V to -38V | - | 15 | 480 | mV |
| Line Regulation (Note1) | ΔVO | 1J = +25°C | V _I = -30V to -36V | - | 8 | 180 | IIIV |
| Load Regulation (Note1) | ΔVο | $T_J = +25^{\circ}C$ $I_O = 5mA \text{ to } 1.5a$ | A | - | 15 | 480 | mV |
| Load Regulation (Note 1) | Δ۷Ο | $T_J = +25^{\circ}C$ IO = 250mA to 750mA | | - | 5 | 240 | mv |
| Quiescent Current | IQ | T _J = +25°C | | - | 3 | 6 | mA |
| Quiagont Current Change | Ala | IO = 5mA to 1A | | - | 0.05 | 0.5 | mA |
| Quiescent Current Change | ΔlQ | $V_I = -27V \text{ to } -38$ | V | - | 0.1 | 1 | 7 1114 |
| Temperature Coefficient of VD | ΔVο/ΔΤ | IO = 5mA | | - | -1 | - | mV/°C |
| Output Noise Voltage | VN | f = 10Hz to 100k T _A = +25°C | кНz | - | 400 | - | μV |
| Ripple Rejection | RR | f = 120Hz ΔVI = 10V | | 54 | 60 | - | dB |
| Dropout Voltage | VD | T _J = +25°C I _O = 1A | | - | 2 | - | V |
| Short Circuit Current | Isc | T _J = +25°C, V _I = -35V | | - | 300 | - | mA |
| Peak Current | IPK | TJ = +25°C | | - | 2.2 | - | Α |

^{1.} Load and line regulation are specified at constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Typical Performance Characteristics



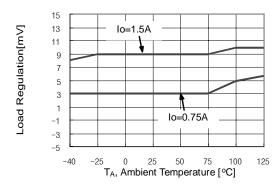
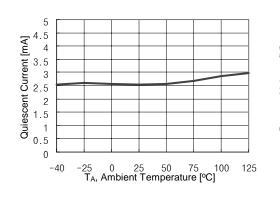


Figure 1. Output Voltage

Figure 2. Load Regulation



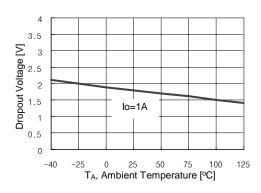


Figure 3. Quiescent Current

Figure 4. Dropout Voltage

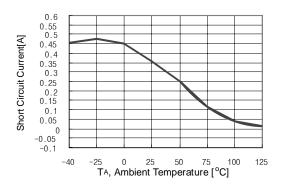


Figure 5. Short Circuit Current

Typical Applications

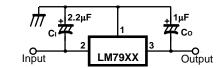


Figure 6. Negative Fixed output regulator

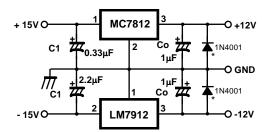


Figure 7. Split power supply (\pm 12V/1A)

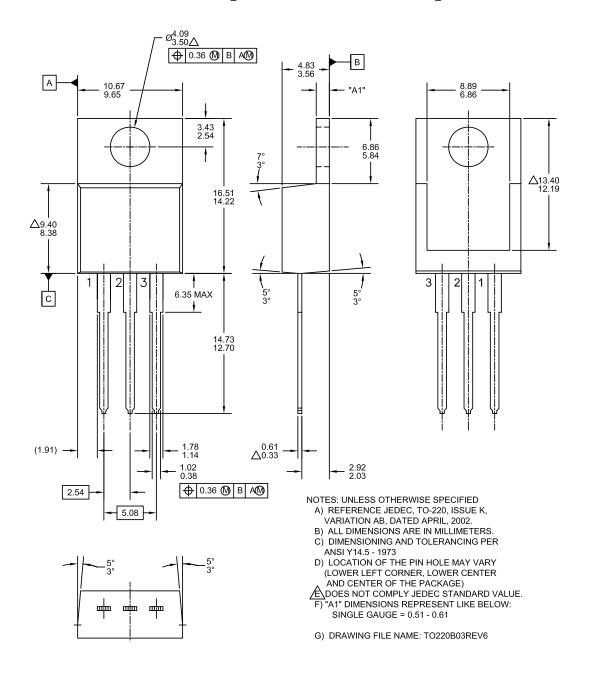
- (1) To specify an output voltage, substitute voltage value for "XX"
- (2) Required for stability. For value given, capacitor must be solid tantalum. If aluminium electronics are used, at least ten times value shown should be selected. C_I is required if regulator is located an appreciable distance from power supply filter.
- (3) To improve transient response. If large capacitors are used, a high current diode from input to output (1N400l or similar) should be introduced to protect the device from momentary input short circuit.

Mechanical Dimensions

Package

Dimensions in millimeters

TO-220 [SINGLE GAUGE]



Ordering Information

| Product Number | Output Voltage Tolerance | Package | Operating Temperature | | |
|----------------|--------------------------|--------------------------|-----------------------|--|--|
| LM7905CT | | | | | |
| LM7906CT | | | | | |
| LM7908CT | | | | | |
| LM7909CT | | TO-220 (Single Gauge) | | | |
| LM7910CT | ±4% | | 0 ~ +125°C | | |
| LM7912CT | | (emigio edago) | | | |
| LM7915CT | | | | | |
| LM7918CT | | | | | |
| LM7924CT | | | | | |

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