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LM79XX

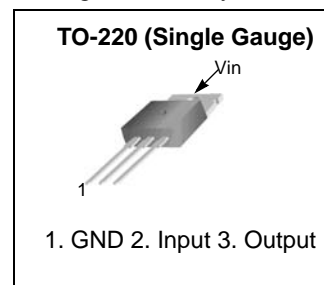
3-Terminal 1A Negative Voltage Regulator

Features

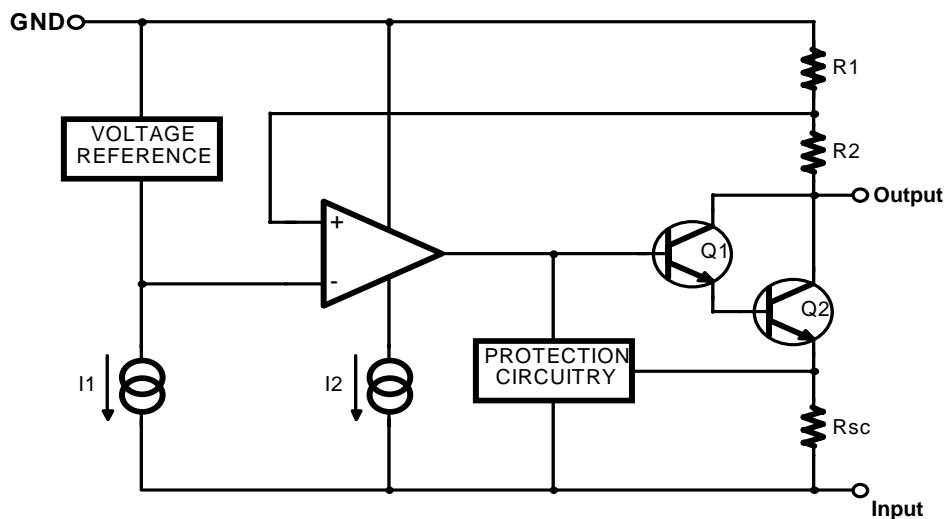
- Output Current in Excess of 1A
- Output Voltages of -5, -6, -8, -9, -10, -12, -15, -18 and -24V
- Internal Thermal Overload Protection
- Short Circuit Protection
- Output Transistor Safe Operating Area Compensation

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 Diagram



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	V_I	-35	V
Thermal Resistance Junction-Case (Note1)	$R_{\theta JC}$	5	°C/W
Thermal Resistance Junction-Air (Note1, 2)	$R_{\theta JA}$	65	
Operating Temperature Range	T_{OPR}	0 ~ +125	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Note:

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

Electrical Characteristics (LM7905)

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V_O	$T_J = +25^\circ C$	-4.8	-5.0	-5.2	V	
		$I_O = 5mA$ to 1A, $P_O \leq 15W$ $V_I = -7V$ to -20V	-4.75	-5.0	-5.25		
Line Regulation (Note3)	ΔV_O	$T_J = +25^\circ C$	$V_I = -7V$ to -25V	-	35	100	mV
			$V_I = -8V$ to -12V	-	8	50	
Load Regulation (Note3)	ΔV_O	$T_J = +25^\circ C$ $I_O = 5mA$ to 1.5A	-	10	100	mV	
		$T_J = +25^\circ C$ $I_O = 250mA$ to 750mA	-	3	50		
Quiescent Current	I_Q	$T_J = +25^\circ C$	-	3	6	mA	
Quiescent Current Change	ΔI_Q	$I_O = 5mA$ to 1A	-	0.05	0.5	mA	
		$V_I = -8V$ to -25V	-	0.1	0.8		
Temperature Coefficient of V_D	$\Delta V_O / \Delta T$	$I_O = 5mA$	-	-0.4	-	mV/°C	
Output Noise Voltage	V_N	$f = 10Hz$ to 100kHz $T_A = +25^\circ C$	-	40	-	μV	
Ripple Rejection	RR	$f = 120Hz$ $\Delta V_I = 10V$	54	60	-	dB	
Dropout Voltage	V_D	$T_J = +25^\circ C$ $I_O = 1A$	-	2	-	V	
Short Circuit Current	I_{SC}	$T_J = +25^\circ C$, $V_I = -35V$	-	300	-	mA	
Peak Current	I_{PK}	$T_J = +25^\circ C$	-	2.2	-	A	

Note

- 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 (LM7906) (Continued)(V_I = -11V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-5.75	-6	-6.25	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -9V to -21V	-5.7	-6	-6.3		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -8V to -25V	-	10	120	mV
			V _I = -9V to -13V	-	5	60	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	10	120	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	3	60		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -8V to -25V	-	0.1	1.3		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-0.5	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	130	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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)(V_I = -14V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-7.7	-8	-8.3	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -10V to -23V	-7.6	-8	-8.4		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -10.5V to -25V	-	10	160	mV
			V _I = -11V to -17V	-	5	80	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	12	160	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	4	80		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -10.5V to -25V	-	0.1	1		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-0.6	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	175	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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)(V_I = -15V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-8.7	-9.0	-9.3	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -1.5V to -23V	-8.6	-9.0	-9.4		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -11.5V to -26V	-	10	180	mV
			V _I = -12V to -18V	-	5	90	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	12	180	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	4	90		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -11.5V to -26V	-	0.1	1		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-0.6	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	175	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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 (LM7910) (Continued)(V_I = -17V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-9.6	-10	-10.4	V	
		I _O = 5mA to 1A, P _d ≤ 15W V _I = -12V to -28	-9.5	-10	-10.5		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -12.5V to -28V	-	12	200	mV
			V _I = -14V to -20V	-	6	100	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	12	200	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	4	100		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -12.5V to -28V	-	0.1	1		
Temperature Coefficient of V _O	ΔV _O /ΔT	I _O = 5mA	-	-1	-	mV/°C	
Output Noise Voltage	V _N	10Hz ≤ f ≤ 100kHz T _A = +25°C	-	280	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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 (LM7912) (Continued)(V_I = -19V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-11.5	-12	-12.5	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -15.5V to -27V	-11.4	-12	-12.6		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -14.5V to -30V	-	12	240	mV
			V _I = -16V to -22V	-	6	120	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	12	240	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	4	120		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -14.5V to -30V	-	0.1	1		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-0.8	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	200	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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 (LM7915) (Continued)(V_I = -23V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-14.4	-15	-15.6	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -18V to -30V	-14.25	-15	-15.75		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -17.5V to -30V	-	12	300	mV
			V _I = -20V to -26V	-	6	150	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	12	300	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	4	150		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -17.5V to -30V	-	0.1	1		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-0.9	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	250	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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 (LM7918) (Continued)(V_I = -27V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-17.3	-18	-18.7	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -22.5V to -33V	-17.1	-18	-18.9		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -21V to -33V	-	15	360	mV
			V _I = -24V to -30V	-	8	180	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A		-	15	360	mV
		T _J = +25°C I _O = 250mA to 750mA		-	5	180	
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -21V to -33V	-	0.1	1		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-1	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	300	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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 (LM7924) (Continued)(V_I = -33V, I_O = 500mA, 0°C ≤ T_J ≤ +125°C, C_I = 2.2μF, C_O = 1μF, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V _O	T _J = +25°C	-23	-24	-25	V	
		I _O = 5mA to 1A, P _O ≤ 15W V _I = -27V to -38V	-22.8	-24	-25.2		
Line Regulation (Note1)	ΔV _O	T _J = +25°C	V _I = -27V to -38V	-	15	480	mV
			V _I = -30V to -36V	-	8	180	
Load Regulation (Note1)	ΔV _O	T _J = +25°C I _O = 5mA to 1.5A	-	15	480	mV	
		T _J = +25°C I _O = 250mA to 750mA	-	5	240		
Quiescent Current	I _Q	T _J = +25°C	-	3	6	mA	
Quiescent Current Change	ΔI _Q	I _O = 5mA to 1A	-	0.05	0.5	mA	
		V _I = -27V to -38V	-	0.1	1		
Temperature Coefficient of V _D	ΔV _O /ΔT	I _O = 5mA	-	-1	-	mV/°C	
Output Noise Voltage	V _N	f = 10Hz to 100kHz T _A = +25°C	-	400	-	μV	
Ripple Rejection	RR	f = 120Hz ΔV _I = 10V	54	60	-	dB	
Dropout Voltage	V _D	T _J = +25°C I _O = 1A	-	2	-	V	
Short Circuit Current	I _{SC}	T _J = +25°C, V _I = -35V	-	300	-	mA	
Peak Current	I _{PK}	T _J = +25°C	-	2.2	-	A	

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.

Typical Performance Characteristics

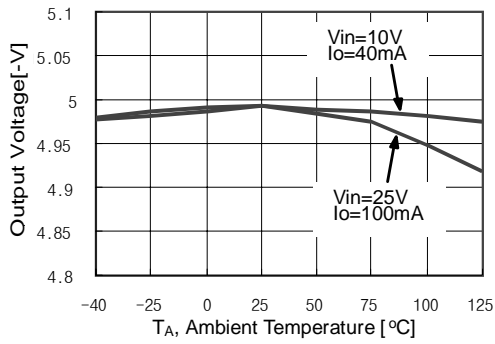


Figure 1. Output Voltage

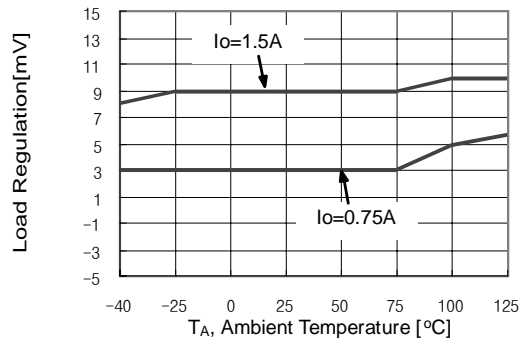


Figure 2. Load Regulation

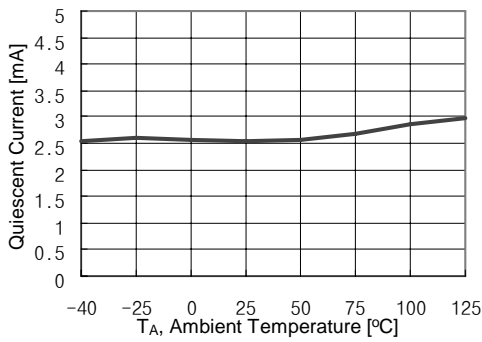


Figure 3. Quiescent Current

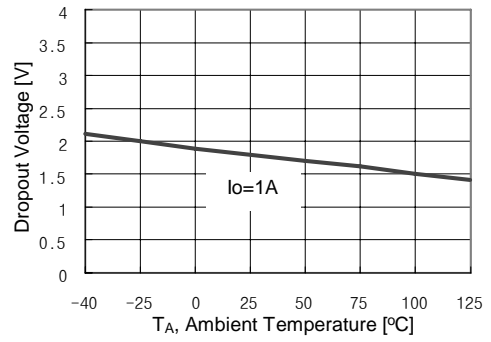


Figure 4. Dropout Voltage

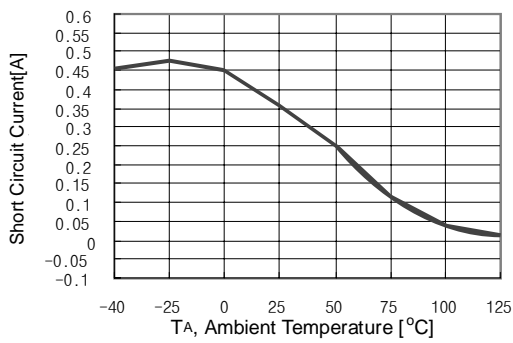


Figure 5. Short Circuit Current

Typical Applications

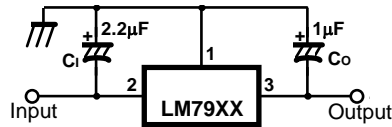


Figure 6. Negative Fixed output regulator

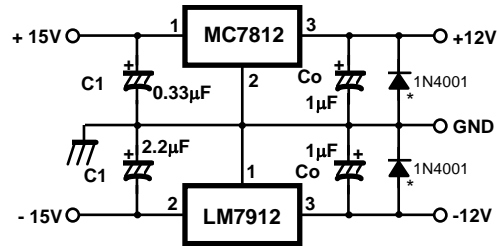


Figure 7. Split power supply (± 12V/1A)

Notes:

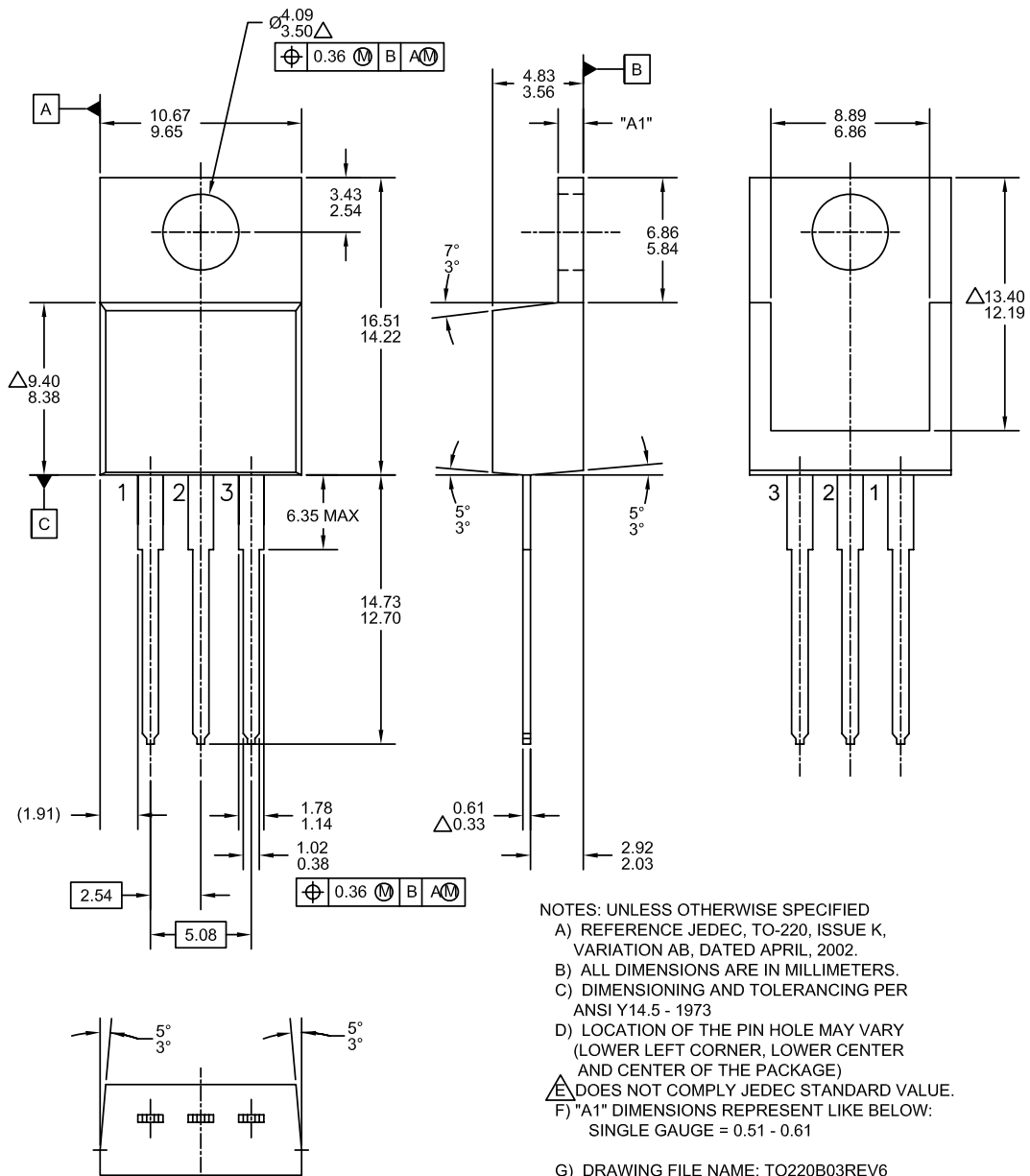
- (1) To specify an output voltage, substitute voltage value for "XX "
- (2) Required for stability. For value given, capacitor must be solid tantalum. If aluminium electrolytics are used, at least ten times value shown should be selected. C₁ is required if regulator is located an appreciable distance from power supply filter.
- (3) To improve transient response. If large capacitors are used, a high current diode from input to output (1N4001 or similar) should be introduced to protect the device from momentary input short circuit.

Mechanical Dimensions

Package

Dimensions in millimeters

TO-220 [SINGLE GAUGE]



- NOTES: UNLESS OTHERWISE SPECIFIED
- A) REFERENCE JEDEC, TO-220, ISSUE K, VARIATION AB, DATED APRIL, 2002.
 - B) ALL DIMENSIONS ARE IN MILLIMETERS.
 - C) DIMENSIONING AND TOLERANCING PER ANSI Y14.5 - 1973
 - D) LOCATION OF THE PIN HOLE MAY VARY (LOWER LEFT CORNER, LOWER CENTER AND CENTER OF THE PACKAGE)
 - Δ DOES NOT COMPLY JEDEC STANDARD VALUE.
 - F) "A1" DIMENSIONS REPRESENT LIKE BELOW:
SINGLE GAUGE = 0.51 - 0.61
 - G) DRAWING FILE NAME: TO220B03REV6

Ordering Information

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

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