

March 2013

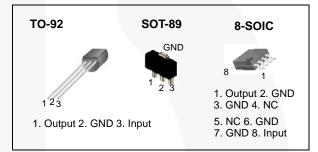
MC78LXXA / LM78LXXA 3-Terminal 0.1 A Positive Voltage Regulator

Features

- · Maximum Output Current of 100 mA
- Output Voltage of 5 V, 6 V, 8 V, 12 V, and 15 V
- Thermal Overload Protection
- · Short-Circuit Current Limiting
- Output Voltage Offered in ±5% Tolerance

Description

The MC78LXXA / LM78LXXA series of fixed-voltage monolithic integrated circuit voltage regulators are suitable for applications that required supply current up to 100 mA.



Ordering Information

Product Number	Package	Packing Method	Output Voltage Tolerance	Operating Temperature
LM78L05ACZ		Bulk		
LM78L05ACZX		Tape & Reel		
LM78L05ACZXA		Ammo		
LM78L12ACZ		Bulk		
LM78L12ACZX		Tape & Reel		
MC78L05ACP	TO-92	Bulk		
MC78L05ACPXA		Ammo		
MC78L06ACP		Bulk	±5%	0 to +125°C
MC78L08ACP		Bulk		
MC78L15ACP		Bulk		
MC78L15ACPXA		Ammo		
MC78L05ACD	8-SOIC	Rail		
MC78L05ACDX	6-30IC	Tape & Reel		
MC78L05ACHX	SOT-89	Tape & Reel		
MC78L08ACHX	301-09	Tape & Reel		

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Block Diagram

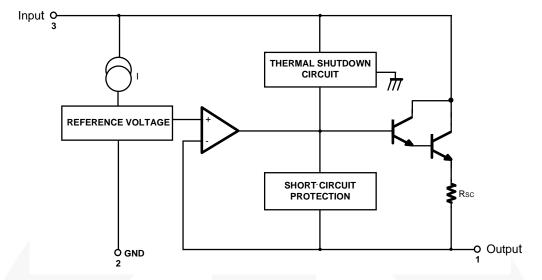


Figure 1. Block Diagram

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}\text{C}$ unless otherwise noted.

Symbol	Parameter		Value	Unit
W	Input Voltage	V _O = 5 V to 8 V	30	V
V _I Inp	Input Voltage	V _O = 12 V to 15 V	35	V
T_J	Operating Junction Temperature Range		0 to +150	°C
T _{STG}	Storage Temperature Range		-65 to +150	°C
$R_{\theta JC}$	Thermal Resistance, Junction-Case	TO-92	50	°C/W
		TO-92	150	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-Air	SOT-89	225	°C/W
		8-SOIC	160	°C/W

Electrical Characteristics (MC78L05A / LM78L05A)

 $V_I = 10 \text{ V, } I_O = 40 \text{ mA, } 0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C, } C_I = 0.33 \text{ } \mu\text{F, } C_O = 0.1 \text{ } \mu\text{F, unless otherwise specified.}$

Symbol	Paramete	er	Cond	Conditions		Тур.	Max.	Unit
Vo	Output Voltage		T _J = 25°C		4.8	5.0	5.2	V
41/	Line Regulation ⁽¹⁾		T _{.I} = 25°C	7 V ≤ V _I ≤ 20 V		8	150	mV
ΔV _O	Line Regulation 7		1j = 25 C	8 V ≤ V _I ≤ 20 V		6	100	mV
$\Delta V_{\mathbf{O}}$	Load Regulation ⁽¹⁾		T - 25°C	$1 \text{ mA} \le I_{O} \le 100 \text{ mA}$		11	60	mV
ΔvO	Load Regulation (*)		$T_J = 25^{\circ}C$	$1 \text{ mA} \le I_{O} \le 40 \text{ mA}$		5.0	30.0	mV
V-	Output Voltage		$7 \text{ V} \leq \text{V}_1 \leq 20 \text{ V}$	1 mA \leq I _O \leq 40 mA			5.25	V
Vo			$7 \text{ V} \leq \text{V}_{\text{I}} \leq \text{V}_{\text{MAX}}^{(2)}$	1 mA \leq I _O \leq 70 mA	4.75		5.25	V
ΙQ	Quiescent Current		$T_J = 25^{\circ}C$			2.0	5.5	mA
ΔI_{Q}	Quiescent Current	With Line	$8~V \leq V_I \leq 20~V$				1.5	mA
ΔI_{Q}	Change	With Load	$1 \text{ mA} \le I_{O} \le 40 \text{ mA}$	1			0.1	mA
V _N	Output Noise Voltage		$T_A = 25^{\circ}C$, 10 Hz	≤ f ≤ 100 kHz		40		μV/Vo
$\Delta V_{O}/\Delta T$	Temperature Coefficient of V _O		$I_O = 5 \text{ mA}$			-0.65		mV/°C
RR	Ripple Rejection		f = 120 Hz, 8 V ≤ \	$V_{\rm I} \le 18 \text{ V}, T_{\rm J} = 25^{\circ}\text{C}$	41	80		dB
V _D	Dropout Voltage		T _J = 25°C			1.7		V

- 1. The maximum steady-state usable output current and input voltage are very dependent on the heat sinking and/or lead length of the package. The data above represents pulse test conditions with junction temperature as indicated at the initiation of tests. 2. Power dissipation $P_D \le 0.75$ W.

Electrical Characteristics (MC78L06A)

 $V_{I}=12~\text{V, I}_{O}=40~\text{mA},~0^{\circ}\text{C} \leq T_{J} \leq 125^{\circ}\text{C},~C_{I}=0.33~\mu\text{F},~C_{O}=0.1~\mu\text{F, unless otherwise specified}.$

Symbol	Parameter		Conditions		Min.	Тур.	Max.	Unit
Vo	Output Voltage		T _J = 25°C		5.75	6.0	6.25	V
41/	Line Regulation ⁽³⁾		T - 25°C	$8.5 \text{ V} \le \text{V}_{\text{I}} \le 20 \text{ V}$		64	175	mV
ΔV_{O}	Line Regulation 47		1j = 25°C	$8.5 \text{ V} \le \text{V}_1 \le 20 \text{ V}$ $9 \text{ V} \le \text{V}_1 \le 20 \text{ V}$		54	125	mV
41/	Load Regulation ⁽³⁾		T _{.1} = 25°C	$1 \text{ mA} < I_{\odot} < 100 \text{ mA}$		12.8	80.0	mV
ΔV_{O}	Load Regulation (*)		1j = 25 C	$1 \text{ mA} \le I_O \le 70 \text{ mA}$		5.8	40.0	mV
V	Output Voltage		8.5 V ≤ V _I ≤	≤ 20 V, 1 mA ≤ I _O ≤ 40 mA	5.7		6.3	V
Vo			8.5 V ≤ V _I ≤	$\leq V_{MAX}^{(4)}$, 1 mA $\leq I_{O} \leq$ 70 mA	5.7		6.3	V
	Quiescent Current		$T_J = 25^{\circ}C$				5.5	mA
ΙQ	Quiescent Current		$T_J = 125^{\circ}C$			3.9	6.0	mA
ΔI_{Q}	Quiescent Current	With Line	9 V ≤ V ₁ ≤ 2	20 V			1.5	mA
ΔI_{Q}	Change	With Load	1 mA ≤ I _O ≤	≤ 40 mA			0.1	mA
V _N	Output Noise Voltage		T _A = 25°C,	10 Hz ≤ f ≤ 100 kHz		40		μV/Vo
$\Delta V_O/\Delta T$	Temperature Coefficient of V _O		$I_O = 5 \text{ mA}$			0.75		mV/°C
RR	Ripple Rejection		f = 120 Hz,	$10 \text{ V} \le \text{V}_{\text{I}} \le 20 \text{ V}, \text{T}_{\text{J}} = 25^{\circ}\text{C}$	40	46		dB
V_D	Dropout Voltage		$T_J = 25^{\circ}C$			1.7		V

^{3.} The maximum steady-state usable output current and input voltage are very dependent on the heat sinking and/or lead length of the package. The data above represents pulse test conditions with junction temperature as indicated at the initiation of tests.
4. Power dissipation P_D ≤ 0.75 W.

Electrical Characteristics (MC78L08A)

 $V_I = 14 \text{ V, } I_O = 40 \text{ mA, } 0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C, } C_I = 0.33 \text{ } \mu\text{F, } C_O = 0.1 \text{ } \mu\text{F, unless otherwise specified.}$

Symbol	Parameter		Conditions		Min.	Тур.	Max.	Unit
Vo	Output Voltage		$T_J = 25^{\circ}C$		7.7	8.0	8.3	V
41/	Line Regulation ⁽⁵⁾		T _{.1} = 25°C	$10.5 \text{ V} \le \text{V}_{\text{I}} \le 23 \text{ V}$		10	175	mV
ΔV_{O}	Line Regulation 7		1j = 25 C	11 V ≤ V _I ≤ 23 V		8	125	mV
41/	Load Regulation ⁽⁵⁾		T - 25°C	$1 \text{ mA} \le I_{O} \le 100 \text{ mA}$		15	80	mV
ΔνΟ	ΔV _O Load Regulation ⁽⁵⁾		$T_J = 25^{\circ}C$	1 mA ≤ I _O ≤ 40 mA		8	40	mV
Vo	Output Voltage		$10.5V \le V_I \le 23V$	1 mA \leq I _O \leq 40 mA	7.6		8.4	V
٧٥			$10.5V \le V_I \le V_{MAX}^{(6)}$	$1 \text{ mA} \le I_{O} \le 70 \text{ mA}$	7.6		8.4	V
ΙQ	Quiescent Current		$T_J = 25^{\circ}C$			2.0	5.5	mA
ΔI_{Q}	Quiescent Current	With Line	11 $V \le V_1 \le 23 V$				1.5	mA
ΔI_{Q}	Change	With Load	$1 \text{ mA} \le I_{O} \le 40 \text{ mA}$				0.1	mA
V _N	Output Noise Voltage		$T_A = 25^{\circ}C, 10 \text{ Hz} \le f$	≤100 kHz		60		μV/Vo
$\Delta V_{O}/\Delta T$	Temperature Coefficient of V _O		$I_O = 5 \text{ mA}$			-0.8		mV/°C
RR	Ripple Rejection		f = 120 Hz, 11 V ≤ V _I	≤ 21 V, T _J = 25°C	39	70		dB
V_D	Dropout Voltage		T _J = 25°C			1.7		V

- 5. The maximum steady-state usable output current and input voltage are very dependent on the heat sinking and/or lead length of the package. The data above represents pulse test conditions with junction temperature as indicated at the initiation of tests. 6. Power dissipation $P_D \le 0.75$ W.

Electrical Characteristics (MC78L12A / LM78L12A)

 $V_I = 19 \text{ V, } I_O = 40 \text{ mA, } 0^{\circ}C \leq T_J \leq 125^{\circ}C, \ C_I = 0.33 \ \mu\text{F, } C_O = 0.1 \ \mu\text{F, unless otherwise specified.}$

Symbol	Parame	Parameter		tions	Min.	Тур.	Max.	Unit
Vo	Output Voltage		$T_J = 25^{\circ}C$		11.5	12.0	12.5	V
41/	Line Regulation (7	')	T _{.1} = 25°C	14.5 V ≤ V _I ≤ 27 V		20	250	mV
ΔV_{O}	Line Regulation	<i>'</i>	1j = 25 C	16 V ≤ V _I ≤ 27 V		15	200	mV
$\Delta V_{\mathbf{O}}$	Load Regulation (7)	T _{.l} = 25°C	$1 \text{ mA} \le I_O \le 100 \text{ mA}$		20	100	mV
ΔνΟ	Load Regulation (*)		1 j = 25 C	1 mA ≤ I _O ≤ 40 mA		10	50	mV
V/ -	Output Voltage		$14.5 \text{ V} \le \text{V}_{\text{I}} \le 27 \text{ V}$	$1 \text{ mA} \le I_O \le 40 \text{ mA}$	11.4		12.6	V
Vo			$14.5 \text{ V} \le \text{V}_{\text{I}} \le \text{V}_{\text{MAX}}^{(8)}$	$1 \text{ mA} \le I_O \le 70 \text{ mA}$	11.4		12.6	٧
ΙQ	Quiescent Curren	t	$T_J = 25^{\circ}C$			2.1	6.0	mA
ΔI_{Q}	Quiescent	With Line	$16 \text{ V} \leq \text{V}_{\text{I}} \leq 27 \text{ V}$				1.5	mA
ΔI_Q	Current Change	With Load	1 mA ≤ I _O ≤ 40 mA				0.1	mA
V _N	Output Noise Voltage		$T_A = 25^{\circ}C, 10 \text{ Hz} \le f$	≤ 100 kHz		80		μV/Vo
$\Delta V_{O}/\Delta T$	Temperature Coefficient of V _O		$I_O = 5 \text{ mA}$			-1.0		mV/°C
RR	Ripple Rejection		f = 120 Hz, 15 V ≤ V _I	≤ 25 V, T _J = 25°C	37	65		dB
V_D	Dropout Voltage		T _J = 25°C		_	1.7		V

- 7. The maximum steady-state usable output current and input voltage are very dependent on the heat sinking and/or lead length of the package. The data above represents pulse test conditions with junction temperature as indicated at the initiation of tests. 8. Power dissipation $P_D \le 0.75$ W.

Electrical Characteristics (MC78L15A)

 $V_I = 23 \text{ V, I}_O = 40 \text{ mA, } 0^{\circ}\text{C} \leq \text{T}_J \leq 125^{\circ}\text{C, C}_I = 0.33 \text{ } \mu\text{F, C}_O = 0.1 \text{ } \mu\text{F, unless otherwise specified.}$

Symbol	Parame	Parameter		nditions		Тур.	Max.	Unit
Vo	Output Voltage		T _J = 25°C		14.4	15.0	15.6	V
41/	Line Regulation ⁽⁹⁾	1	T _{.1} = 25°C	17.5 V ≤ V _I ≤ 30 V		25	300	mV
ΔV_{O}	Line Regulation		1 J = 25 C	20 V ≤ V _I ≤ 30 V		20	250	mV
$\Delta V_{\mathbf{O}}$	Load Regulation ^{(§}	9)	T _{.1} = 25°C	1 mA ≤ I _O ≤ 100 mA		25	150	mV
ΔvO	Load Regulation(9)		1 j = 25 C	1 mA ≤ I _O ≤ 40 mA		12	75	mV
W	Output Voltage		$17.5 \text{ V} \le \text{V}_{\text{I}} \le 30 \text{ V}$	$1 \text{ mA} \le I_{O} \le 40 \text{ mA}$	14.25		15.75	V
Vo	Output Voltage		$17.5 \text{ V} \le \text{V}_{\text{I}} \le \text{V}_{\text{MAX}}^{(10)}$	$1 \text{ mA} \le I_{O} \le 70 \text{ mA}$	14.25		15.75	V
IQ	Quiescent Current		$T_J = 25^{\circ}C$			2.1	6.0	mA
ΔI_{Q}	Quiescent	With Line	$20~V \leq V_I \leq 30~V$				1.5	mA
ΔI_{Q}	Current Change	With Load	1 mA \leq I _O \leq 40 mA				0.1	mA
V _N	Output Noise Voltage		$T_A = 25^{\circ}C, 10 \text{ Hz} \le f \le$	100 kHz		90		μV/Vo
$\Delta V_{O}/\Delta T$	Temperature Coefficient of V _O		$I_O = 5 \text{ mA}$			-1.3		mV/°C
RR	Ripple Rejection		$f = 120 \text{ Hz}, 18.5 \text{ V} \le \text{V}_{\text{I}}$	≤28.5 V, T _J = 25°C	34	60		dB
V_D	Dropout Voltage		T _J = 25°C			1.7		V

- 9. The maximum steady-state usable output current and input voltage are very dependent on the heat sinking and/or lead length of the package. The data above represents pulse test conditions with junction temperature as indicated at the initiation of tests. 10. Power dissipation $P_D \le 0.75 \text{ W}$.

Typical Application

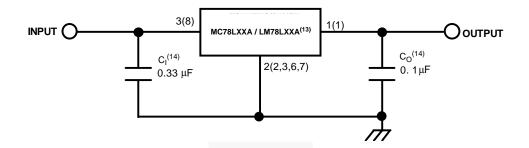


Figure 2. Typical Application

- 13. To specify an output voltage, substitute voltage value for "XX".
- 14. C_1 is required if the regulator is located an appreciable distance from the power supply filter. Though C_0 is not needed for stability, it improves transient response. Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulator.

Physical Dimensions

SOT-89

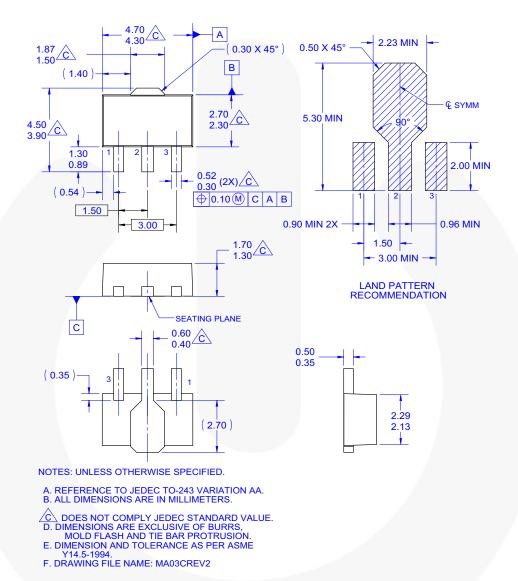


Figure 3. 3-Lead, SOT-89, JEDEC TO-243, Option AA

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Physical Dimensions (Continued)

TO-92 Straight Lead for Bulk Packing

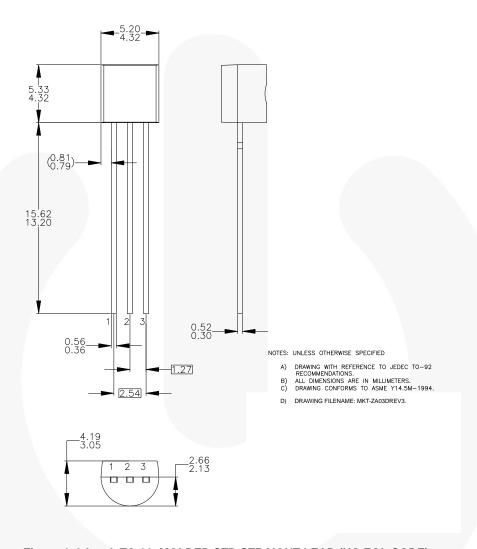


Figure 4. 3-Lead, TO-92, MOLDED STD STRAIGHT LEAD (NO EOL CODE)

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Physical Dimensions (Continued)

TO-92 Formed Lead For T&R and Ammo Packing

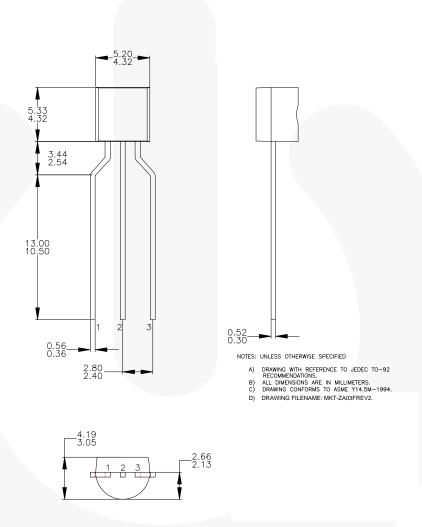


Figure 5. 3-Lead, TO-92, MOLDED 0.200 IN LINE SPACING LD FORM (J61Z OPTION)

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Physical Dimensions (Continued)

8-SOIC

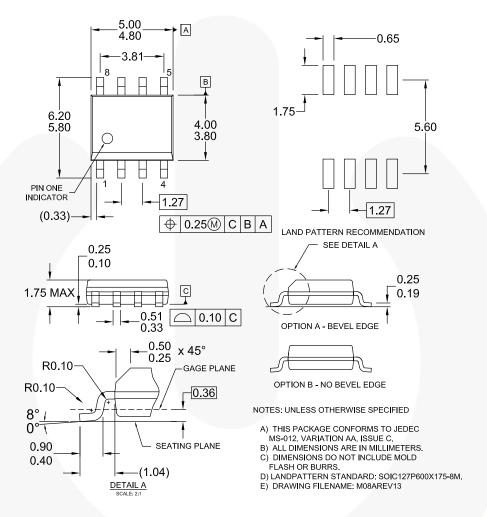


Figure 6. 8-Lead, SOIC, JEDEC MS-012, 0.150" NARROW BODY

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