MC78LXXA/LM78LXXA/MC78L05AA

3-Terminal 0.1A Positive Voltage Regulator

Features

- Maximum Output Current of 100mA
- Output Voltage of 5V, 8V, 12V, 15V, 18V and 24V
- Thermal Overload Protection
- Short Circuit Current Limiting
- Output Voltage Offered in ±5% Tolerance

Description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply current up to 100mA.

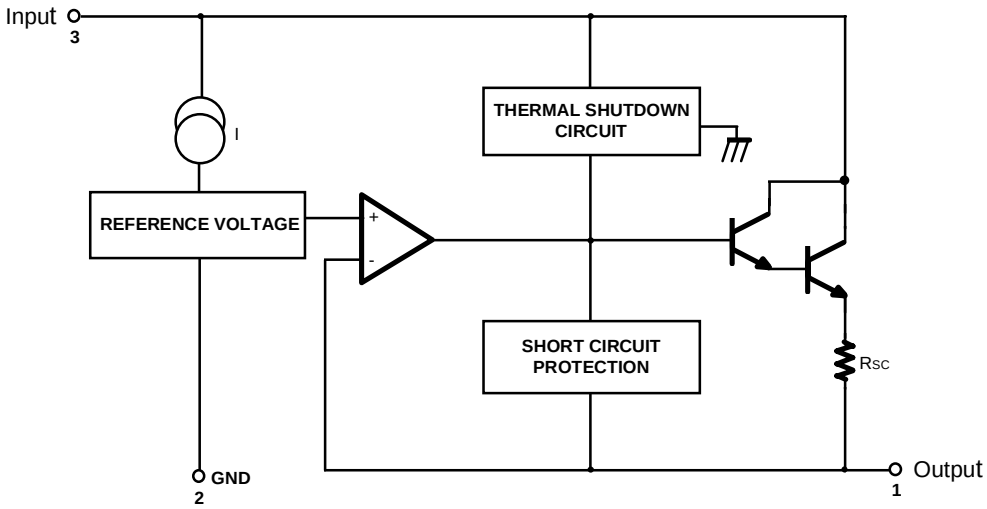
TO-92 **SOT-89**

1. Output 2. GND 3. Input

8-SOP

1. Output 2. GND 3. GND 4. NC
5. NC 6. GND 7. GND 8. Input

Internal Block Diagram



Rev. 1.0.4

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage (for V_O = 5V, 8V) (for V_O = 12V to 18V) (for V_O = 24V)	V_I	30 35 40	V V V
Operating Junction Temperature Range	T_J	0 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Electrical Characteristics(MC78L05A/LM78L05A)

(V_I = 10V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		4.8	5.0	5.2	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	7V ≤ V_I ≤ 20V	-	8	150	mV
				8V ≤ V_I ≤ 20V	-	6	100	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	11	60	mV
				1mA ≤ I_O ≤ 40mA	-	5.0	30	mV
Output Voltage		V_O	7V ≤ V_I ≤ 20V	1mA ≤ I_O ≤ 40mA	-	-	5.25	V
			7V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	4.75	-	5.25	V
Quiescent Current		I_Q	T_J = 25°C		-	2.0	5.5	mA
Quiescent Current Change	With Line	ΔI_Q	8V ≤V_I ≤ 20V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40 mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤ 100kHz		-	40	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-0.65	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 8V ≤ V_I ≤ 18V, T_J = 25°C		41	80	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Electrical Characteristics(MC78L08A) (Continued)

(V_I = 14V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		7.7	8.0	8.3	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	10.5V ≤ V_I ≤ 23V	-	10	175	mV
				11V ≤ V_I ≤ 23V	-	8	125	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	15	80	mV
				1mA ≤ I_O ≤ 40mA	-	8.0	40	mV
Output Voltage		V_O	10.5V ≤ V_I ≤ 23V	1mA ≤ I_O ≤ 40mA	7.6	-	8.4	V
			10.5V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	7.6	-	8.4	V
Quiescent Current		I_Q	T_J = 25°C		-	2.0	5.5	mA
Quiescent Current Change	With Line	ΔI_Q	11V ≤ V_I ≤ 23V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤100kHz		-	60	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-0.8	-	mV/ °C
Ripple Rejection		RR	f = 120Hz, 11V ≤ V_I ≤ 21V, T_J = 25°C		39	70	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Electrical Characteristics(MC78L12A/LM78L12A) (Continued)

(V_I = 19V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33 μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		11.5	12	12.5	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	14.5V ≤ V_I ≤ 27V	-	20	250	mV
				16V ≤ V_I ≤ 27V	-	15	200	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	20	100	mV
				1mA ≤ I_O ≤ 40mA	-	10	50	mV
Output Voltage		V_O	14.5V ≤ V_I ≤ 27V	1mA ≤ I_O ≤ 40mA	11.4	-	12.6	V
			14.5V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	11.4	-	12.6	V
Quiescent Current		I_Q	T_J = 25°C		-	2.1	6.0	mA
Quiescent Current Change	With Line	ΔI_Q	16V ≤ V_I ≤ 27V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤ 100kHz		-	80	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-1.0	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 15V ≤ V_I ≤ 25V, T_J = 25°C		37	65	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Electrical Characteristics(MC78L15A) (Continued)

(V_I = 23V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33 μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		14.4	15	15.6	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	17.5V ≤ V_I ≤ 30V	-	25	300	mV
				20V ≤ V_I ≤ 30V	-	20	250	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	25	150	mV
				1mA ≤ I_O ≤ 40mA	-	12	75	mV
Output Voltage		V_O	17.5V ≤ V_I ≤ 30V	1mA ≤ I_O ≤ 40mA	14.25	-	15.75	V
			17.5V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	14.25	-	15.75	V
Quiescent Current		I_Q	T_J = 25°C		-	2.1	6.0	mA
Quiescent Current Change	With Line	ΔI_Q	20V ≤ V_I ≤ 30V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤ 100kHz		-	90	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-1.3	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 18.5V≤V_I ≤28.5V, T_J = 25°C		34	60	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Electrical Characteristics(MC78L18A) (Continued)

(V_I = 27V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		17.3	18	18.7	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	21V ≤ V_I ≤ 33V	-	145	300	mV
				22V ≤ V_I ≤ 33V	-	135	250	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O≤100mA	-	30	170	mV
				1mA ≤ I_O ≤ 40mA	-	15	85	mV
Output Voltage		V_O	21V ≤ V_I ≤ 33V	1mA ≤ I_O ≤ 40mA	17.1	-	18.9	V
			21V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	17.1	-	18.9	V
Quiescent Current		I_Q	T_J = 25°C		-	2.2	6.0	mA
Quiescent Current Change	With Line	ΔI_Q	21V ≤ V_I ≤ 33V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤ 100kHz		-	150	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-1.8	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 23V ≤ V_I ≤ 33V, T_J = 25°C		34	48	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Electrical Characteristics(MC78L24A) (Continued)

(V_I = 33V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		23	24	25	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	27V ≤ V_I ≤ 38V	-	160	300	mV
				28V ≤ V_I ≤ 38V	-	150	250	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	40	200	mV
				1mA ≤ I_O ≤ 40mA	-	20	100	mV
Output Voltage		V_O	27V ≤ V_I ≤ 38V	1mA ≤ I_O ≤ 40mA	22.8	-	25.2	V
			27V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	22.8	-	25.2	V
Quiescent Current		I_Q	T_J = 25°C		-	2.2	6.0	mA
Quiescent Current Change	With Line	ΔI_Q	28V ≤ V_I ≤ 38V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤ 100kHz		-	200	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-2.0	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 28V ≤ V_I ≤ 38V, T_J = 25°C		34	45	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage (for V_O = 5V, 8V) (for V_O = 12V to 18V) (for V_O = 24V)	V_I	30 35 40	V V V
Operating Junction Temperature Range	T_J	0 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Electrical Characteristics(MC78L05AA) (Continued)

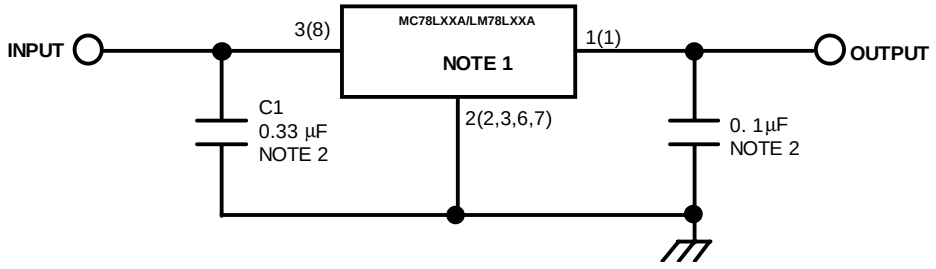
(V_I = 10V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note 1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		4.9	5.0	5.1	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	7V ≤ V_I ≤ 20V	-	8	150	mV
				8V ≤ V_I ≤ 20V	-	6	100	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	11	50	mV
				1mA ≤ I_O ≤ 40mA	-	5.0	25	mV
Output Voltage		V_O	7V ≤V_I ≤20V	1mA ≤ I_O ≤ 40mA	-	-	5.15	V
			7V ≤V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	4.75	-	5.15	V
Quiescent Current		I_Q	T_J = 25°C		-	2.0	5.5	mA
Quiescent Current Change	With Line	ΔI_Q	8V ≤V_I ≤ 20V		-	-	1.5	mA
	With Load	ΔI_Q	1mA ≤ I_O ≤ 40 mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz ≤ f ≤ 100kHz		-	40	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-0.65	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 8V ≤ V_I ≤ 18V, T_J = 25°C		41	80	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Note:

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 represent pulse test conditions with junction temperature as indicated at the initiation of tests.
2. Power dissipation P_D ≤ 0.75W.

Typical Application



’( )’ : 8SOP Type

Notes:

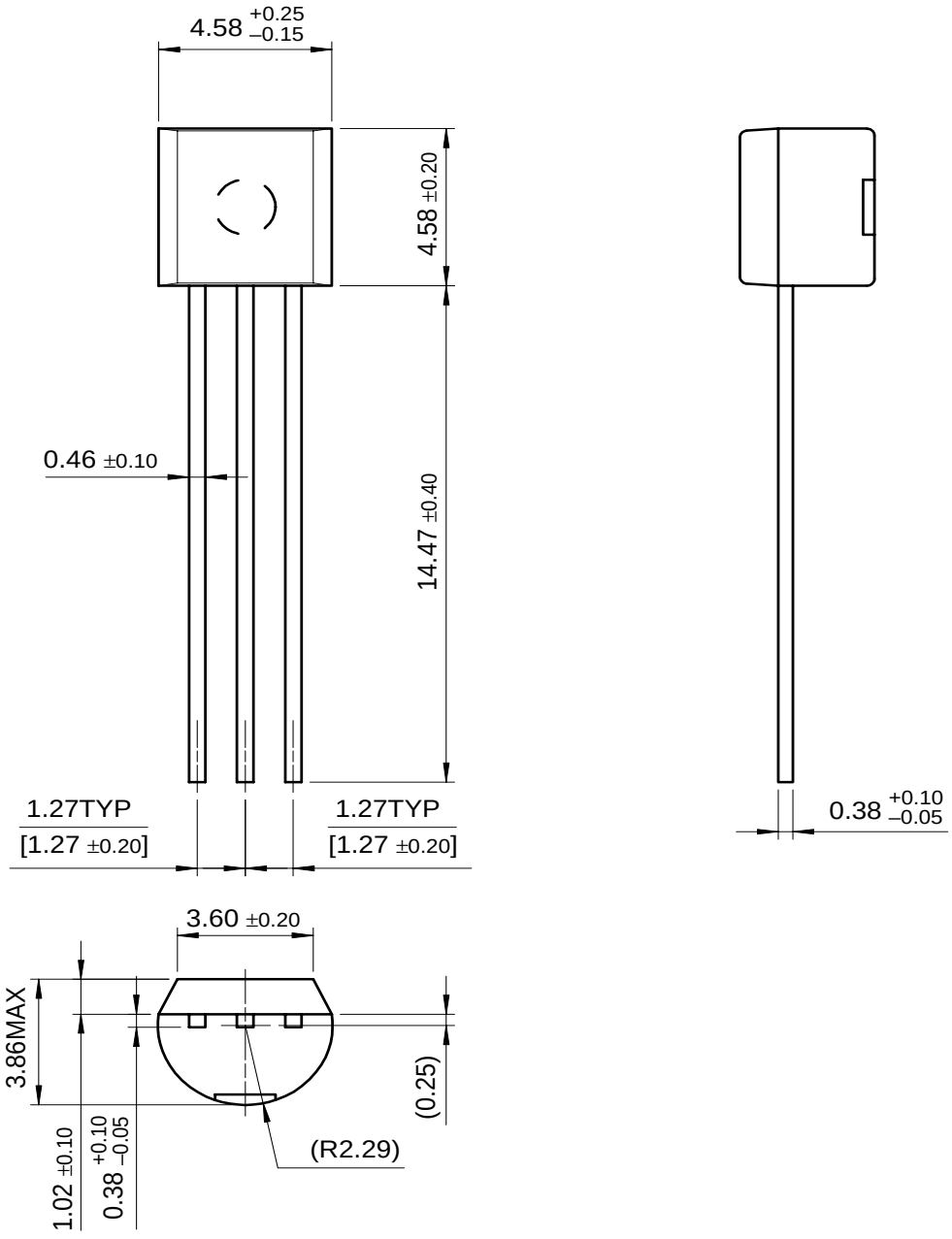
1. To specify an output voltage, substitute voltage value for “XX”.
2. Bypass Capacitors are recommend for optimum stability and transient response and should be located as close as possible to the regulator

Mechanical Dimensions

Package

Dimensions in millimeters

TO-92

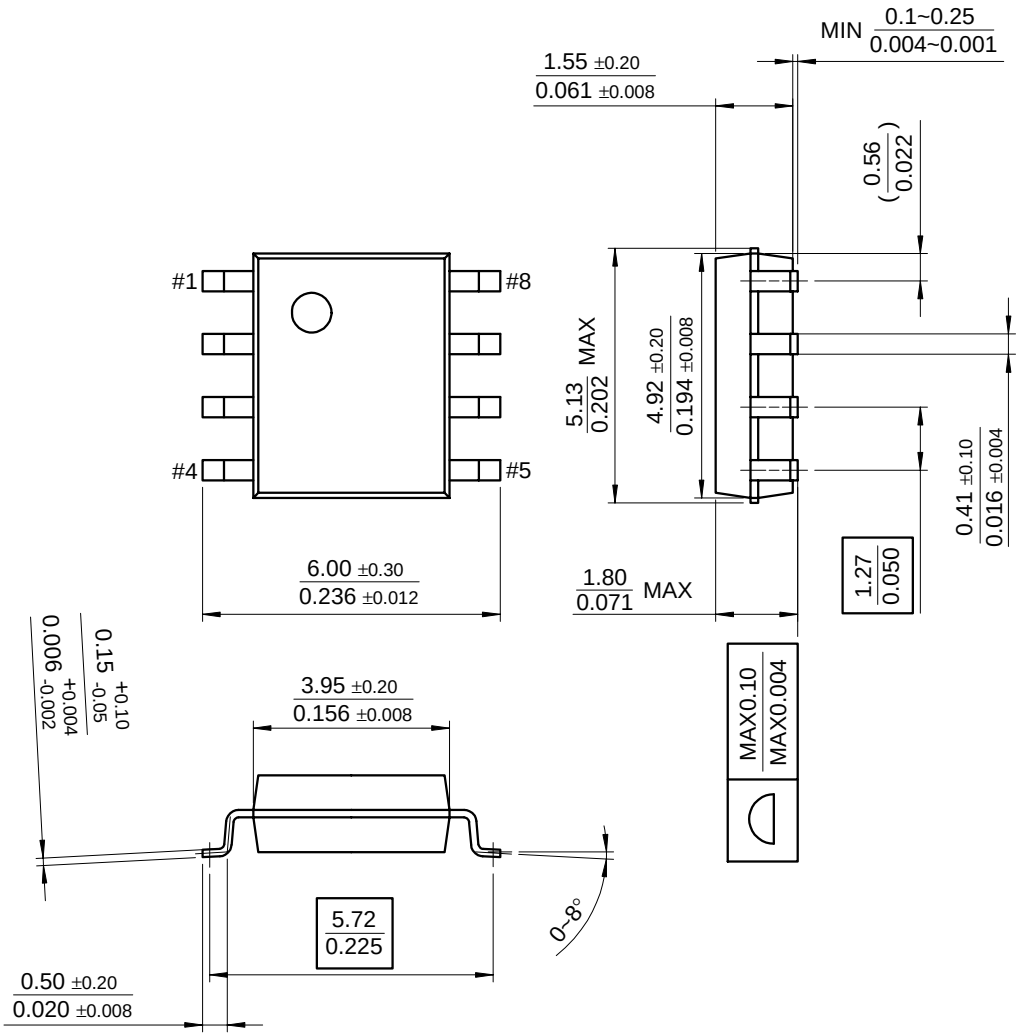


Mechanical Dimensions (Continued)

Package

Dimensions in millimeters

8-SOP

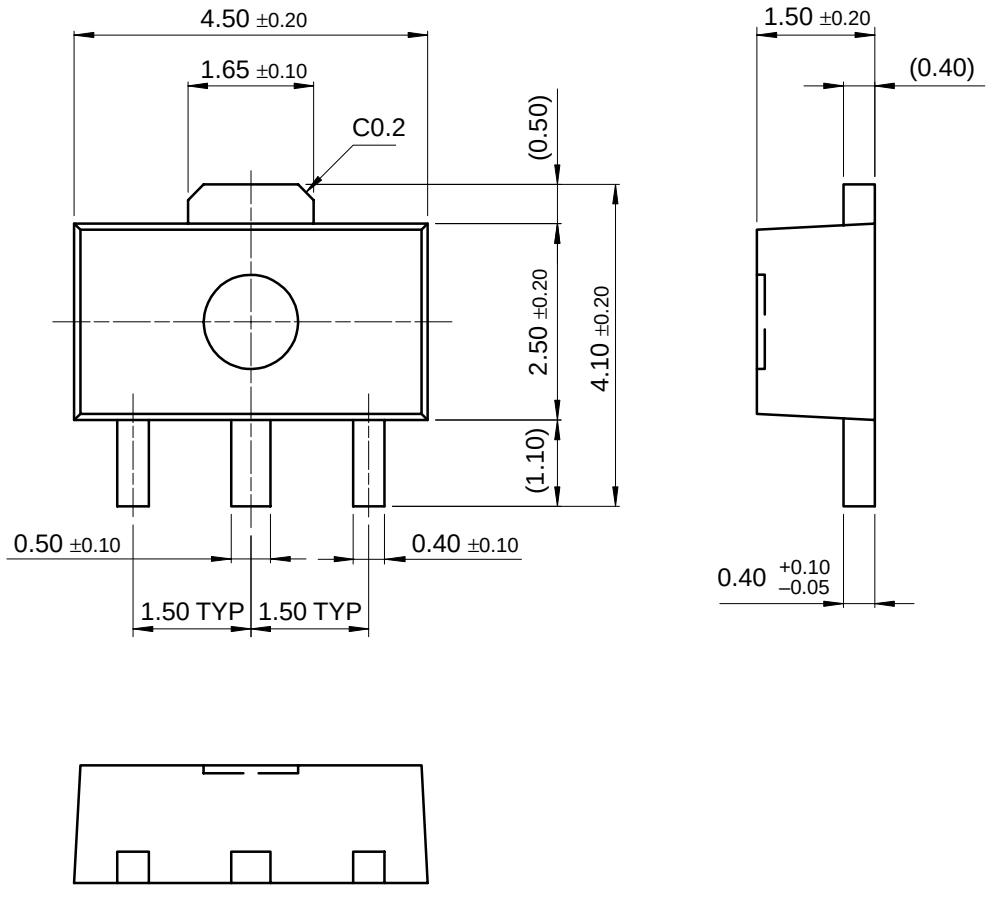


Mechanical Dimensions (Continued)

Package

Dimensions in millimeters

SOT-89



Ordering Information

Product Number	Package	Output Voltage Tolerance	Operating Temperature
LM78L05ACZ	TO-92	5%	0 ~ +125°C
LM78L12ACZ			

Product Number	Package	Output Voltage Tolerance	Operating Temperature
MC78L05ACP	TO-92	5%	0 ~ +125°C
MC78L08ACP			
MC78L12ACP			
MC78L15ACP			
MC78L18ACP			
MC78L24ACP			
MC78L05ACD	8-SOP		
MC78L08ACD			
MC78L12ACD			
MC78L05ACH	SOT-89		
MC78L08ACH			
MC78L12ACH			
MC78L05AACP	TO-92	2%	

LM78L12A
3-Terminal 0.1A Positive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This pagePrint version

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Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

General description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply up to 100mA.

back to top

Features

- Maximum Output Current of 100mA
- Output Voltage of 5V, 8V, 12V, 15V, 18V and 24V
- Thermal Overload Protection
- Short Circuit Current Limiting
- Output Voltage Offered in ± 5% Tolerance

back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
LM78L12ACZ	Full Production	TO-92	3	BULK
LM78L12ACZX	Full Production	TO-92	3	TAPE REEL
LM78L12ACZXA	Full Production	TO-92	3	TAPE REEL

back to top

LM78L05A
3-Terminal 0.1A Positive Voltage Regulator

Contents

Datasheet
Download this datasheet
PDF

e-mail this datasheet
[E-

This pagePrint version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

General description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply up to 100mA.

back to top

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back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
LM78L05ACZXA	Full Production	TO-92	3	TAPE REEL
LM78L05ACZ	Full Production	TO-92	3	BULK
LM78L05ACZX	Full Production	TO-92	3	TAPE REEL

back to top

MC78L05A
3-Terminal 0.1A Postive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This pagePrint version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

General description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply up to 100mA.

back to top

Features

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- Thermal Overload Protection
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- Output Voltage Offered in ± 5% Tolerance

back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L05ACPX	Full Production	TO-92	3	TAPE REEL
MC78L05ACPXA	Full Production	TO-92	3	TAPE REEL
MC78L05ACP	Full Production	TO-92	3	BULK
MC78L05ACD	Full Production	SOIC	8	RAIL
MC78L05ACDX	Full Production	SOIC	8	TAPE REEL

back to top

MC78L05AA
Product information

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This pagePrint version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

General description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply up to 100mA.

back to top

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back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L05AACP	Full Production	TO-92	3	BULK
MC78L05AACPXA	Full Production	TO-92	3	TAPE REEL

back to top

MC78L08A
3-Terminal 0.1A Postive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This pagePrint version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

General description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply up to 100mA.

back to top

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- Output Voltage of 5V, 8V, 12V, 15V, 18V and 24V
- Thermal Overload Protection
- Short Circuit Current Limiting
- Output Voltage Offered in ± 5% Tolerance

back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L08ACPXA	Full Production	TO-92	3	TAPE REEL
MC78L08ACPX	Full Production	TO-92	3	TAPE REEL
MC78L08ACP	Full Production	TO-92	3	BULK

back to top

MC78L12A
3-Terminal 0.1A Postive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This page Print version

General description

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back to top

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back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L12ACPX	Full Production	TO-92	3	TAPE REEL
MC78L12ACP	Full Production	TO-92	3	BULK
MC78L12ACPXA	Full Production	TO-92	3	TAPE REEL

back to top

MC78L15A
3-Terminal 0.1A Postive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This pagePrint version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

General description

The MC78LXXA/LM78LXXA/MC78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply up to 100mA.

back to top

Features

- Maximum Output Current of 100mA
- Output Voltage of 5V, 8V, 12V, 15V, 18V and 24V
- Thermal Overload Protection
- Short Circuit Current Limiting
- Output Voltage Offered in ± 5% Tolerance

back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L15ACD	Full Production	SOIC	8	RAIL
MC78L15ACPXA	Full Production	TO-92	3	TAPE REEL
MC78L15ACDX	Full Production	SOIC	8	TAPE REEL
MC78L15ACP	Full Production	TO-92	3	BULK
MC78L15ACPX	Full Production	TO-92	3	TAPE REEL

back to top

MC78L18A
3-Terminal 0.1A Postive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This pagePrint version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

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back to top

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back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L18ACP	Full Production	TO-92	3	BULK
MC78L18ACPXA	Full Production	TO-92	3	TAPE REEL
MC78L18ACPX	Full Production	TO-92	3	TAPE REEL

back to top

MC78L24A
3-Terminal 0.1A Postive Voltage Regulator

Contents

Datasheet
Download this datasheet

PDF

e-mail this datasheet

[E-

This page Print version

Related Links

Request samples
How to order products
Product Change Notices (PCNs)
Support
Distributor and field sales representatives
Quality and reliability
Design tools

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back to top

Features

- Maximum Output Current of 100mA
- Output Voltage of 5V, 8V, 12V, 15V, 18V and 24V
- Thermal Overload Protection
- Short Circuit Current Limiting
- Output Voltage Offered in ± 5% Tolerance

back to top

Product status/pricing/packaging

Product	Product status	Package type	Leads	Packing method
MC78L24ACP	Full Production	TO-92	3	BULK
MC78L24ACPX	Full Production	TO-92	3	TAPE REEL
MC78L24ACPXA	Full Production	TO-92	3	TAPE REEL

back to top