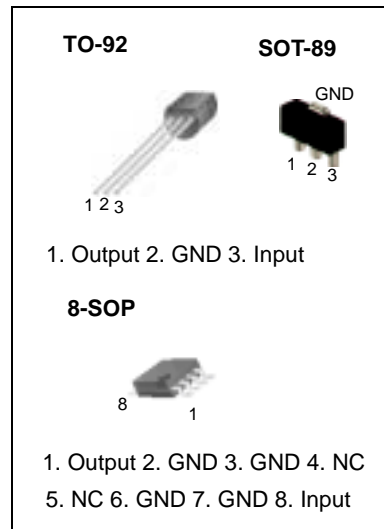# KA78LXXA/KA78L05AA
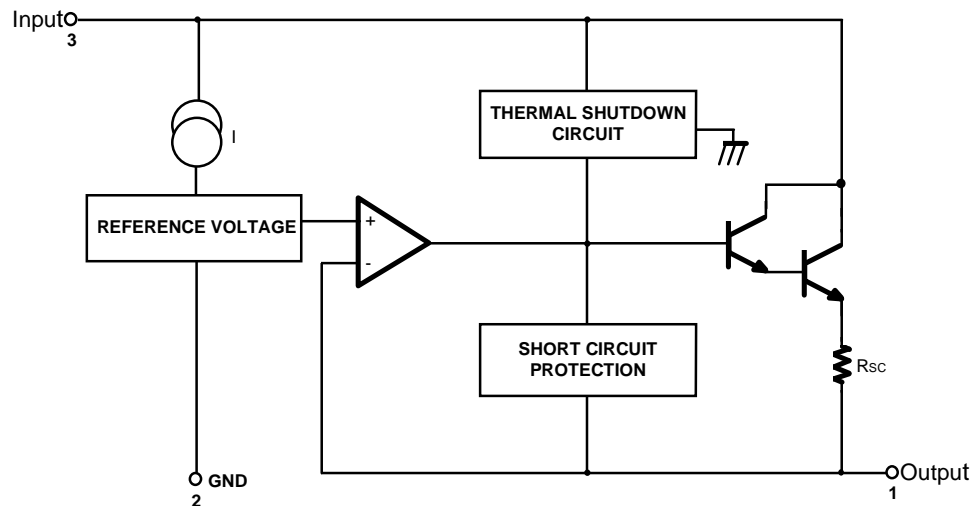## 3-Terminal 0.1A Positive Voltage Regulator

Features

• Maximum Output Current of 100mA
• Output Voltage of 5V, 6V, 8V, 9V,10V, 12V, 15V, 18V and 24V
• Thermal Overload Protection
• Short Circuit Current Limiting
• Output Voltage Offered in ±5% Tolerance

Description

The KA78LXXA/KA78L05AA series of fixed voltage monolithic integrated circuit voltage regulators are suitable for application that required supply current up to 100mA.

TO-92   **SOT-89**

GND

1 2 3

1 2 3

1. Output 2. GND 3. Input

8-SOP

8   1

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

Internal Block Diagram

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(KA78L05A)

(V_I = 10V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note1)

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} (Note2)	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(KA78L06A) (Continued)

(V_I = 12V, 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		5.75	6.0	6.25	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	8.5V ≤ V_I ≤ 20V	-	64	175	mV
				9V ≤ V_I ≤ 20V	-	54	125	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	12.8	80	mV
				1mA ≤ I_O ≤ 70mA	-	5.8	40	mV
Output Voltage		V_O	8.5 ≤ V_I ≤ 20V, 1mA ≤ I_O ≤ 40mA		5.7	-	6.3	V
			8.5 ≤ V_I ≤ V_{MAX}(Note), 1mA ≤ I_O ≤ 70mA		5.7	-	6.3	V
Quiescent Current		I_Q	T_J = 25°C		-	-	5.5	mA
			T_J = 125°C		-	3.9	6.0	mA
Quiescent Current Change	With Line	ΔI_Q	9 ≤ V_I ≤ 20V		-	-	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		-	40	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	0.75	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 10V ≤ V_I ≤ 20V, T_J = 25°C		40	46	-	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(KA78L08A) (Continued)

(V_I = 14V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note1)

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} (Note2)	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(KA78L09A) (Continued)

(V_I = 15V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33μF, C_O = 0.1μF, unless otherwise specified. (Note1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		8.64	9.0	9.36	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	11.5V ≤ V_I ≤ 24V	-	90	200	mV
				13V ≤ V_I ≤ 24V	-	100	150	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA ≤ I_O ≤ 100mA	-	20	90	mV
				1mA ≤ I_O ≤ 40mA	-	10	45	mV
Output Voltage		V_O	11.5V ≤ V_I ≤ 24V	1mA ≤ I_O ≤ 40mA	8.55	-	9.45	V
			11.5V ≤ V_I ≤ V_{MAX} (Note 2)	1mA ≤ I_O ≤ 70mA	8.55	-	9.45	V
Quiescent Current		I_Q	T_J = 25°C		-	2.1	6.0	mA
Quiescent Current Change	With Line	ΔI_Q	13V ≤ V_I ≤ 24V		-	-	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		-	70	-	μV/Vo
Temperature Coefficient of V_O		$\Delta V_O/\Delta T$	I_O = 5mA		-	-0.9	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 12V ≤ V_I ≤ 22V, T_J = 25°C		38	44	-	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(KA78L10A) (Continued)

(V_I = 16V, I_O = 40mA, 0 °C $\leq$ T_J $\leq$ 125 °C, C_I = 0.33 µF, C_O = 0.1µF, unless otherwise specified. (Note1)

Parameter		Symbol	Conditions		Min.	Typ.	Max.	Unit
Output Voltage		V_O	T_J = 25°C		9.6	10.0	10.4	V
Line Regulation (Note1)		ΔV_O	T_J = 25°C	12.5 $\leq$ V_I $\leq$ 25V	-	100	220	mV
				14V $\leq$ V_I $\leq$ 25V	-	100	170	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA $\leq$ I_O $\leq$ 100mA	-	20	94	mV
				1mA $\leq$ I_O $\leq$ 70mA	-	10	47	mV
Output Voltage		V_O	12.5V $\leq$ V_I $\leq$ 25V, 1mA $\leq$ I_O $\leq$ 40mA		9.5	-	10.5	V
			12.5V $\leq$ V_I $\leq$ V_{MAX} (Note2) 1mA $\leq$ I_O $\leq$ 70mA		9.5	-	10.5	
Quiescent Current		I_Q	T_J = 25°C		-	-	6.0	mA
			T_J =125°C		-	4.2	6.5	
Quiescent Current Change	With Line	ΔI_Q	12.5 $\leq$ V_I $\leq$ 25V		-	-	1.5	mA
	With Load	ΔI_Q	1mA $\leq$ I_O $\leq$ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz $\leq$ f $\leq$ 100kHz		-	74	-	µV/Vo
Temperature Coefficient of V_O		$\Delta V_O / \Delta T$	I_O = 5mA		-	0.95	-	mV/°C
Ripple Rejection		RR	f = 120Hz, 15V $\leq$ V_I $\leq$ 25V, T_J = 25°C		38	43	-	dB
Dropout Voltage		V_D	T_J = 25°C		-	1.7	-	V

Notes:

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 $\leq$ 0.75W.

Electrical Characteristics(KA78L12A) (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(KA78L15A) (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. (Note1)

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(KA78L18A) (Continued)

(V_I = 27V, I_O = 40mA, 0°C $\leq T_J \leq$ 125°C, C_I = 0.33 µF, C_O = 0.1µF, unless otherwise specified. (Note1)

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 $\leq V_I \leq$ 33V	-	145	300	mV
				22V $\leq V_I \leq$ 33V	-	135	250	mV
Load Regulation (Note1)		ΔV_O	T_J = 25°C	1mA $\leq I_O \leq$ 100mA	-	30	170	mV
				1mA $\leq I_O \leq$ 40mA	-	15	85	mV
Output Voltage		V_O	21V $\leq V_I \leq$ 33V	1mA $\leq I_O \leq$ 40mA	17.1	-	18.9	V
			21V $\leq V_I \leq$ V_{MAX} (Note 2)	1mA $\leq I_O \leq$ 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 $\leq V_I \leq$ 33V		-	-	1.5	mA
	With Load	ΔI_Q	1mA $\leq I_O \leq$ 40mA		-	-	0.1	mA
Output Noise Voltage		V_N	T_A = 25°C, 10Hz $\leq$ f $\leq$ 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 $\leq V_I \leq$ 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 $P_D \leq$ 0.75W.

Electrical Characteristics(KA78L24A) (Continued)

(V_I = 33V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33 μF, C_O = 0.1μF, unless otherwise specified. (Note1)

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} (Note2)	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(KA78L05AA) (Continued)

(V_I = 10V, I_O = 40mA, 0°C ≤ T_J ≤ 125°C, C_I = 0.33 μF, C_O = 0.1μF, unless otherwise specified. (Note1)

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} (Note2)	1mA ≤ I_O ≤ 70mA	4.85	-	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
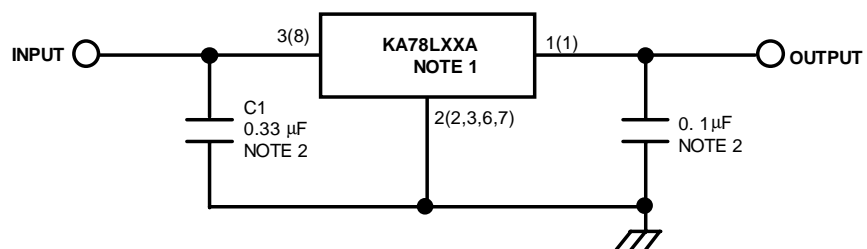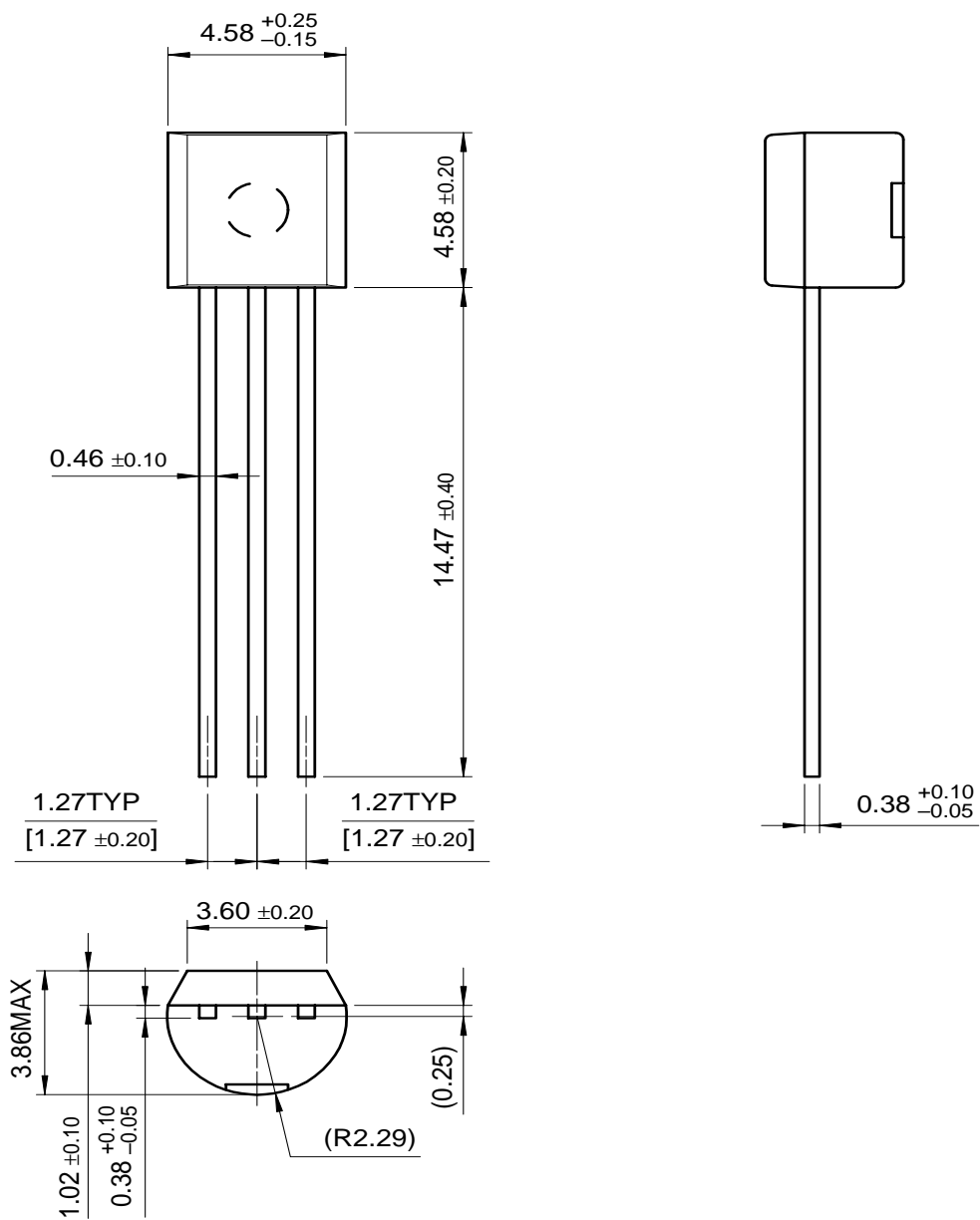

'( )' : 8SOP Type

Note:
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
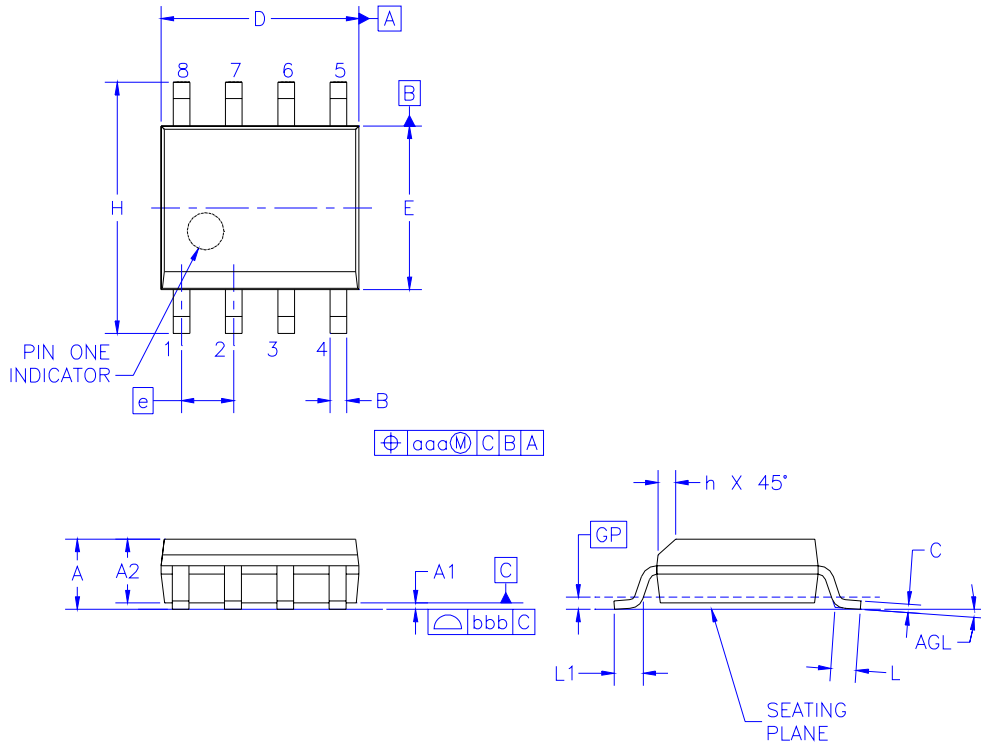
Package

Dimensions in millimeters

TO-92

4.58 +0.25 −0.15

4.58 ±0.20

0.46 ±0.10

14.47 ±0.40

1.27TYP
[1.27 ±0.20]

1.27TYP
[1.27 ±0.20]

0.38 +0.10 −0.05

3.60 ±0.20

3.86MAX

1.02 ±0.10

0.38 +0.10 −0.05

(0.25)

(R2.29)

Mechanical Dimensions (Continued)

Package

Dimensions in millimeters

8-SOP

Symbol	Min	Nom	Max
A	-	-	1.75
A1	0.10	0.15	0.25
A2	1.25	1.45	1.50
B	0.35	0.37	0.51
C	0.19	0.20	0.25
D	4.80	4.90	5.00
E	3.80	3.90	4.00
e	1.27BSC		
H	5.79	5.99	6.20
h	0.25	-	0.50
L	0.50	0.70	0.90
GP	0.36 BSC		
q	0	-	8
aaa	-	-	0.25
bbb	-	-	0.10

Mechanical Dimensions (Continued)

Package

Dimensions in millimeters

SOT-89

4.50 ±0.20

1.65 ±0.10

C0.2

(0.50)

2.50 ±0.20

4.10 ±0.20

(1.10)

0.50 ±0.10

0.40 ±0.10

1.50 TYP 1.50 TYP

1.50 ±0.20

(0.40)

0.40 +0.10 −0.05
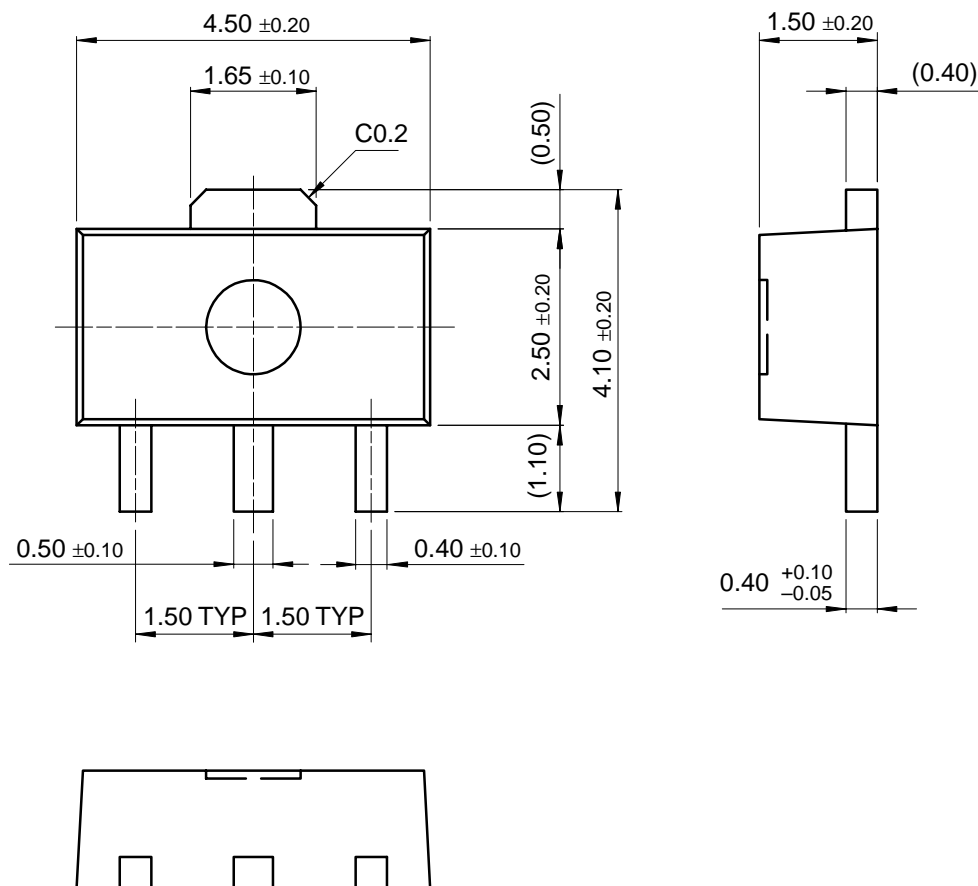
Ordering Information

Product Number	Package	Packing	Output Voltage Tolerance	Operating Temperature
KA78L05AZTA	TO-92	Ammo	5%	0 ~ +125 °C
KA78L05AZTF		Tape & Reel		
KA78L05AZBU		Bulk		
KA78L06AZTA		Ammo		
KA78L06AZBU		Tape & Reel		
KA78L08AZTA		Ammo		
KA78L08AZTF		Tape & Reel		
KA78L08AZBU		Bulk		
KA78L09AZTA		Ammo		
KA78L09AZBU		Tape & Reel		
KA78L10AZTA		Ammo		
KA78L10AZBU		Tape & Reel		
KA78L12AZTA		Ammo		
KA78L12AZTF		Tape & Reel		
KA78L12AZBU		Bulk		
KA78L15AZTA		Ammo		
KA78L15AZBU		Tape & Reel		
KA78L18AZTA		Ammo		
KA78L18AZBU		Tape & Reel		
KA78L24AZTA		Ammo		
KA78L05AMTF	SOT-89	Tape & Reel		
KA78L05AMTM		Tape & Reel		
KA78L08AMTF		Tape & Reel		
KA78L09AMTF		Tape & Reel		
KA78L12AMTF		Tape & Reel		
KA78L05AD	8-SOP	Tube		
KA78L05ADTF		Tape & Reel		
KA78L08AD		Tube		
KA78L08ADTF		Tape & Reel		
KA78L12AD		Tube		
KA78L12ADTF		Tape & Reel		
KA78L05AAZTA	TO-92	Ammo	2%	
KA78L05AAZBU		Bulk		

Note:

1. For information on tape & reel and ammo pack specifications, including part orientation and tape sizes, please refer to our tape and reel data, www.fairchildsemi.com/products/analog/pdf/to92r_tr.pdf.

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