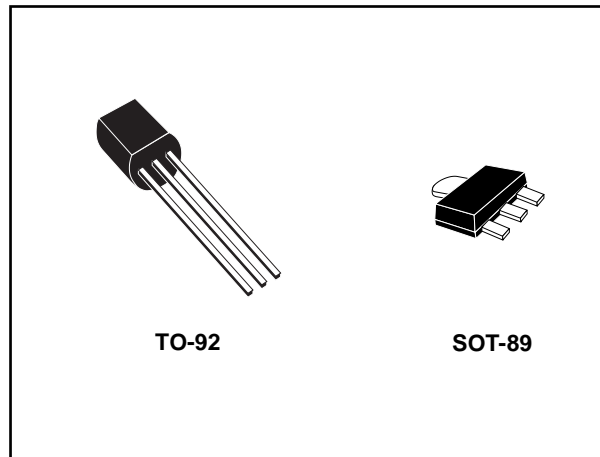


POSITIVE VOLTAGE REGULATORS

- OUTPUT CURRENT UP TO 100 mA
- OUTPUT VOLTAGES OF 3.3; 5; 6; 8; 9; 10; 12; 15; 18; 20; 24V
- THERMAL OVERLOAD PROTECTION
- SHORT CIRCUIT PROTECTION
- NO EXTERNAL COMPONENTS ARE REQUIRED
- AVAILABLE IN EITHER $\pm 5\%$

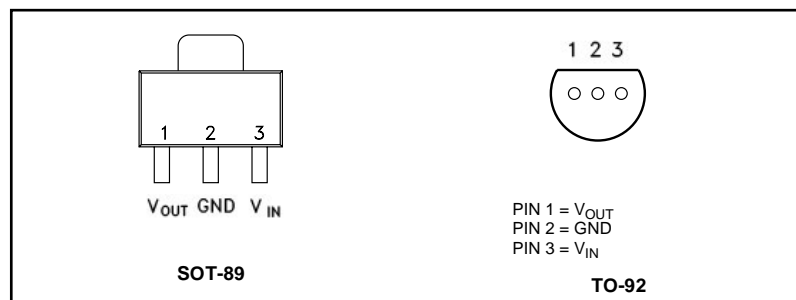
DESCRIPTION

The L78L00 series of three-terminal positive regulators employ internal current limiting and thermal shutdown, making them essentially indestructible. If adequate heat-sink is provided, they can deliver up to 100 mA output current. They are intended as fixed voltage regulators in a wide range of applications including local or on-card regulation for elimination of noise and distribution problems associated with single-point regulation. In addition, they can be used with power pass elements to make high-current voltage regulators. The L78L00 series used as Zener diode/resistor combination replacement, offers an effective output impedance improvement of typically two



orders of magnitude, along with lower quiescent current and lower noise.

CONNECTION DIAGRAM (top view)



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter ²		Value	Unit
V_I	DC Input Voltage	$V_O = 3.3$ to 9 V	30	V
		$V_O = 12$ to 15 V	35	
		$V_O = 18$ to 24 V	40	
I_O	Output Current		100	mA
P_{tot}	Power Dissipation		Internally Limited (*)	
T_{stg}	Storage Temperature Range		-40 to 150	$^{\circ}\text{C}$
T_{op}	Operating Junction Temperature Range	for L78L00C, L78L00AC	0 to 125	$^{\circ}\text{C}$
		for L78L00AB	-40 to 125	

ELECTRICAL CHARACTERISTICS OF 78L33A

(refer to the test circuits, $V_I = 8.3V$, $I_O = 40\text{ mA}$, $C_1 = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$,
 $T_J = 0\text{ to }125^\circ\text{C}$ for L78L33AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L33AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	3.168	3.3	3.432	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 5.3\text{ to }20\text{ V}$	3.135		3.465	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 8.3\text{ V}$	3.135		3.465	
ΔV_O	Line Regulation	$V_I = 5.3\text{ to }20\text{ V}$ $T_J = 25^\circ\text{C}$			150	mV
		$V_I = 6.3\text{ to }20\text{ V}$ $T_J = 25^\circ\text{C}$			100	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			60	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			30	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6	mA
		$T_J = 125^\circ\text{C}$			5.5	mA
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 6.3\text{ to }20\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		40		μV
SVR	Supply Voltage Rejection	$V_I = 6.3\text{ to }16.3\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	41	49		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L05A

(refer to the test circuits, $V_I = 10V$, $I_O = 40\text{ mA}$, $C_1 = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$,
 $T_J = 0\text{ to }125^\circ\text{C}$ for L78L05AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L05AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	4.8	5	5.2	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 7\text{ to }20\text{ V}$	4.75		5.25	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 10\text{ V}$	4.75		5.25	
ΔV_O	Line Regulation	$V_I = 7\text{ to }20\text{ V}$ $T_J = 25^\circ\text{C}$			150	mV
		$V_I = 8\text{ to }20\text{ V}$ $T_J = 25^\circ\text{C}$			100	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			60	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			30	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6	mA
		$T_J = 125^\circ\text{C}$			5.5	mA
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 8\text{ to }20\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		40		μV
SVR	Supply Voltage Rejection	$V_I = 8\text{ to }18\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	41	49		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L06A

(refer to the test circuits, $V_I = 12V$, $I_O = 40\text{ mA}$, $C_1 = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$,
 $T_J = 0\text{ to }125^\circ\text{C}$ for L78L06AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L06AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	5.76	6	6.24	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 8.5\text{ to }20\text{ V}$	5.7		6.3	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 12\text{ V}$	5.7		6.3	
ΔV_O	Line Regulation	$V_I = 8.5\text{ to }20\text{ V}$ $T_J = 25^\circ\text{C}$			150	mV
		$V_I = 9\text{ to }20\text{ V}$ $T_J = 25^\circ\text{C}$			100	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			60	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			30	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6	mA
		$T_J = 125^\circ\text{C}$			5.5	mA
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 9\text{ to }20\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		50		μV
SVR	Supply Voltage Rejection	$V_I = 9\text{ to }20\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	39	46		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L08A

(refer to the test circuits, $V_I = 14V$, $I_O = 40\text{ mA}$, $C_I = 0.33\ \mu\text{F}$, $C_O = 0.1\ \mu\text{F}$,
 $T_J = 0$ to 125°C for L78L08AC, $T_J = -40$ to 125°C for L78L08AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	7.68	8	8.32	V
V_O	Output Voltage	$I_O = 1$ to 40 mA $V_I = 10.5$ to 23 V	7.6		8.4	V
		$I_O = 1$ to 70 mA $V_I = 14\text{ V}$	7.6		8.4	
ΔV_O	Line Regulation	$V_I = 10.5$ to 23 V $T_J = 25^\circ\text{C}$			175	mV
		$V_I = 11$ to 23 V $T_J = 25^\circ\text{C}$			125	
ΔV_O	Load Regulation	$I_O = 1$ to 100 mA $T_J = 25^\circ\text{C}$			80	mV
		$I_O = 1$ to 40 mA $T_J = 25^\circ\text{C}$			40	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6	mA
		$T_J = 125^\circ\text{C}$			5.5	mA
ΔI_d	Quiescent Current Change	$I_O = 1$ to 40 mA			0.1	mA
		$V_I = 11$ to 23 V			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz}$ to 100KHz $T_J = 25^\circ\text{C}$		60		μV
SVR	Supply Voltage Rejection	$V_I = 12$ to 23 V $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	37	45		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L09A

(refer to the test circuits, $V_I = 15V$, $I_O = 40\text{ mA}$, $C_I = 0.33\ \mu\text{F}$, $C_O = 0.1\ \mu\text{F}$,
 $T_J = 0$ to 125°C for L78L09AC, $T_J = -40$ to 125°C for L78L09AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	8.64	9	9.36	V
V_O	Output Voltage	$I_O = 1$ to 40 mA $V_I = 11.5$ to 23 V	8.55		9.45	V
		$I_O = 1$ to 70 mA $V_I = 15\text{ V}$	8.55		9.45	
ΔV_O	Line Regulation	$V_I = 11.5$ to 23 V $T_J = 25^\circ\text{C}$			225	mV
		$V_I = 12$ to 23 V $T_J = 25^\circ\text{C}$			150	
ΔV_O	Load Regulation	$I_O = 1$ to 100 mA $T_J = 25^\circ\text{C}$			80	mV
		$I_O = 1$ to 40 mA $T_J = 25^\circ\text{C}$			40	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6	mA
		$T_J = 125^\circ\text{C}$			5.5	mA
ΔI_d	Quiescent Current Change	$I_O = 1$ to 40 mA			0.1	mA
		$V_I = 12$ to 23 V			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz}$ to 100KHz $T_J = 25^\circ\text{C}$		70		μV
SVR	Supply Voltage Rejection	$V_I = 12$ to 23 V $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	37	44		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L10A

(refer to the test circuits, $V_I = 16V$, $I_O = 40\text{ mA}$, $C_I = 0.33\ \mu\text{F}$, $C_O = 0.1\ \mu\text{F}$,
 $T_J = 0$ to 125°C for L78L10AC, $T_J = -40$ to 125°C for L78L10AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	9.6	10	10.4	V
V_O	Output Voltage	$I_O = 1$ to 40 mA $V_I = 12.5$ to 23 V	9.5		10.5	V
		$I_O = 1$ to 70 mA $V_I = 16\text{ V}$	9.5		10.5	
ΔV_O	Line Regulation	$V_I = 12.5$ to 23 V $T_J = 25^\circ\text{C}$			230	mV
		$V_I = 13$ to 23 V $T_J = 25^\circ\text{C}$			170	
ΔV_O	Load Regulation	$I_O = 1$ to 100 mA $T_J = 25^\circ\text{C}$			80	mV
		$I_O = 1$ to 40 mA $T_J = 25^\circ\text{C}$			40	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6	mA
		$T_J = 125^\circ\text{C}$			5.5	mA
ΔI_d	Quiescent Current Change	$I_O = 1$ to 40 mA			0.1	mA
		$V_I = 13$ to 23 V			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz}$ to 100KHz $T_J = 25^\circ\text{C}$		60		μV
SVR	Supply Voltage Rejection	$V_I = 14$ to 23 V $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	37	45		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L12A

 (refer to the test circuits, $V_I = 19V$, $I_O = 40\text{ mA}$, $C_I = 0.33\ \mu\text{F}$, $C_O = 0.1\ \mu\text{F}$,

 $T_J = 0\text{ to }125^\circ\text{C}$ for L78L12AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L12AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	11.5	12	12.5	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 14.5\text{ to }27\text{ V}$	11.4		12.6	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 19\text{ V}$	11.4		12.6	
ΔV_O	Line Regulation	$V_I = 14.5\text{ to }27\text{ V}$ $T_J = 25^\circ\text{C}$			250	mV
		$V_I = 16\text{ to }27\text{ V}$ $T_J = 25^\circ\text{C}$			200	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			100	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			50	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6.5	mA
		$T_J = 125^\circ\text{C}$			6	
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 16\text{ to }27\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		80		μV
SVR	Supply Voltage Rejection	$V_I = 15\text{ to }25\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	37	42		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L15A

 (refer to the test circuits, $V_I = 19V$, $I_O = 40\text{ mA}$, $C_I = 0.33\ \mu\text{F}$, $C_O = 0.1\ \mu\text{F}$,

 $T_J = 0\text{ to }125^\circ\text{C}$ for L78L15AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L15AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	14.4	15	15.6	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 17.5\text{ to }30\text{ V}$	14.25		15.75	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 23\text{ V}$	14.25		15.75	
ΔV_O	Line Regulation	$V_I = 17.5\text{ to }30\text{ V}$ $T_J = 25^\circ\text{C}$			300	mV
		$V_I = 20\text{ to }30\text{ V}$ $T_J = 25^\circ\text{C}$			250	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			150	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			75	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6.5	mA
		$T_J = 125^\circ\text{C}$			6	
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 20\text{ to }30\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		90		μV
SVR	Supply Voltage Rejection	$V_I = 18.5\text{ to }28.5\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	34	39		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L18A

 (refer to the test circuits, $V_I = 27V$, $I_O = 40\text{ mA}$, $C_I = 0.33\ \mu\text{F}$, $C_O = 0.1\ \mu\text{F}$,

 $T_J = 0\text{ to }125^\circ\text{C}$ for L78L18AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L18AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	17.3	18	18.7	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 22\text{ to }33\text{ V}$	17.1		18.9	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 27\text{ V}$	17.1		18.9	
ΔV_O	Line Regulation	$V_I = 21\text{ to }33\text{ V}$ $T_J = 25^\circ\text{C}$			320	mV
		$V_I = 22\text{ to }33\text{ V}$ $T_J = 25^\circ\text{C}$			270	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			170	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			85	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6.5	mA
		$T_J = 125^\circ\text{C}$			6	
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 23\text{ to }33\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		120		μV
SVR	Supply Voltage Rejection	$V_I = 23\text{ to }33\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	33	38		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L20A

(refer to the test circuits, $V_I = 29V$, $I_O = 40\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = 0\text{ to }125^\circ\text{C}$ for L78L20AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L20AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	19.2	20	20.8	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 24\text{ to }33\text{ V}$	19		21	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 29\text{ V}$	19		21	
ΔV_O	Line Regulation	$V_I = 22.5\text{ to }34\text{ V}$ $T_J = 25^\circ\text{C}$			330	mV
		$V_I = 24\text{ to }34\text{ V}$ $T_J = 25^\circ\text{C}$			280	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			180	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			90	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6.5	mA
		$T_J = 125^\circ\text{C}$			6	
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 25\text{ to }33\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		120		μV
SVR	Supply Voltage Rejection	$V_I = 25\text{ to }35\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	32	38		dB
V_d	Dropout Voltage			1.7		V

ELECTRICAL CHARACTERISTICS OF 78L24A

(refer to the test circuits, $V_I = 27V$, $I_O = 40\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = 0\text{ to }125^\circ\text{C}$ for L78L24AC, $T_J = -40\text{ to }125^\circ\text{C}$ for L78L24AB, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	23	24	25	V
V_O	Output Voltage	$I_O = 1\text{ to }40\text{ mA}$ $V_I = 27\text{ to }38\text{ V}$	22.8		25.2	V
		$I_O = 1\text{ to }70\text{ mA}$ $V_I = 33\text{ V}$	22.8		25.2	
ΔV_O	Line Regulation	$V_I = 27\text{ to }38\text{ V}$ $T_J = 25^\circ\text{C}$			350	mV
		$V_I = 28\text{ to }38\text{ V}$ $T_J = 25^\circ\text{C}$			300	
ΔV_O	Load Regulation	$I_O = 1\text{ to }100\text{ mA}$ $T_J = 25^\circ\text{C}$			200	mV
		$I_O = 1\text{ to }40\text{ mA}$ $T_J = 25^\circ\text{C}$			100	
I_d	Quiescent Current	$T_J = 25^\circ\text{C}$			6.5	mA
		$T_J = 125^\circ\text{C}$			6	
ΔI_d	Quiescent Current Change	$I_O = 1\text{ to }40\text{ mA}$			0.1	mA
		$V_I = 28\text{ to }38\text{ V}$			1.5	
eN	Output Noise Voltage	$B = 10\text{Hz to }100\text{KHz}$ $T_J = 25^\circ\text{C}$		200		μV
SVR	Supply Voltage Rejection	$V_I = 23\text{ to }33\text{ V}$ $f = 120\text{Hz}$ $I_O = 40\text{ mA}$ $T_J = 25^\circ\text{C}$	31	37		dB
V_d	Dropout Voltage			1.7		V

Figure 1 : 78L05/12 Output Voltage vs Ambient Temperature

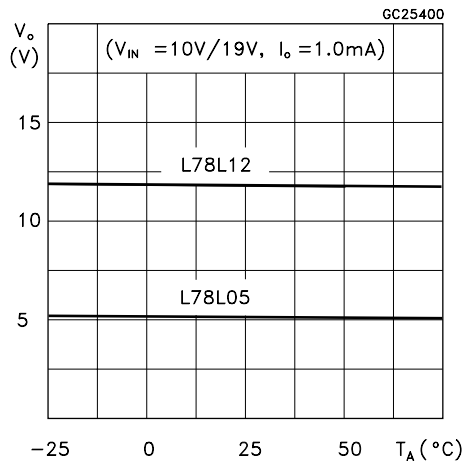
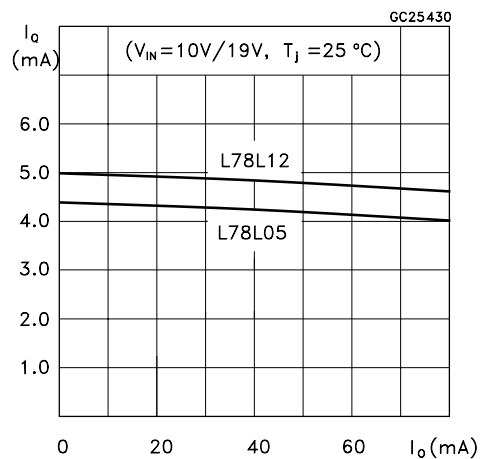
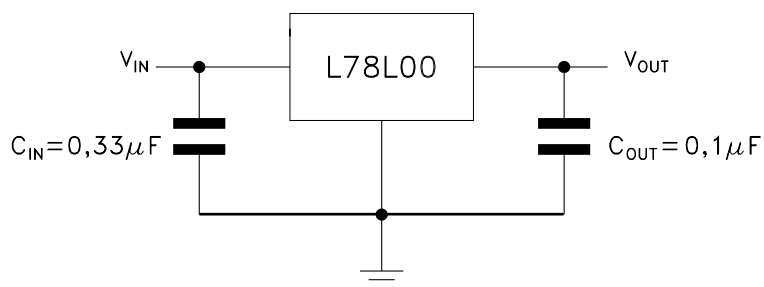


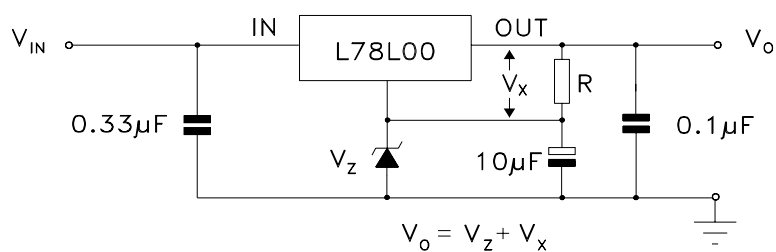
Figure 2: 78L05/12 Quiescent Current vs Output Current



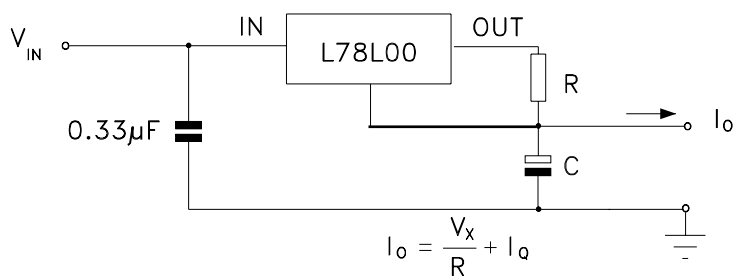
TEST CIRCUITS



Edit Boost Circuit



Current Regulator



Adjustable Output Regulator

