

SANYO	No.1700E	L780S00 Series
5 to 24V 1A 5-Pin Voltage Regulators with Strobe Pin		

Features

- . Output voltage

L780S05:	5V	L780S06:	6V	L780S07:	7V
L780S08:	8V	L780S09:	9V	L780S10:	10V
L780S12:	12V	L780S15:	15V	L780S18:	18V
L780S20:	20V	L780S24:	24V		
- . The strobe pin can be used to turn ON/OFF output voltage (active-low).
- . 1A output current.
- . On-chip thermal protector.
- . On-chip overcurrent limiter.
- . On-chip ASO protector.
- . The use of package TO220-5H (5 pins) facilitates mounting and thermal design.

[Common to L780S00 series]

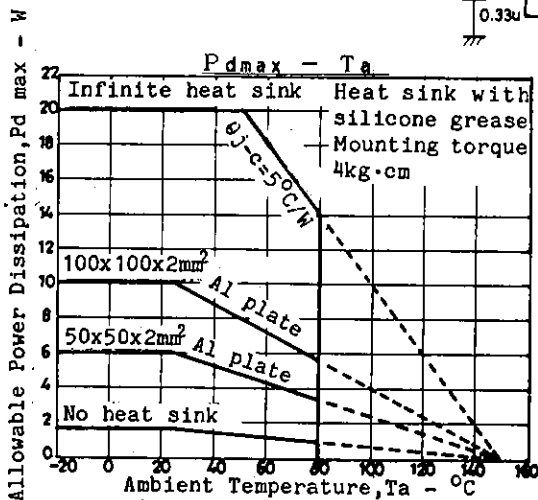
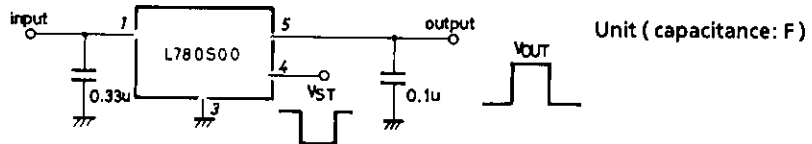
Maximum Ratings at Ta=25°C

				unit
Maximum Supply Voltage	V_{CCmax}	Pin 1	35	V
Strobe Input Voltage	V_{STmax}	Pin 4	18	V
Strobe Input Current	I_{STmax}	Pin 4	5	mA
Allowable Power Dissipation	P_{dmax}		1.75	W
		$T_c=25^\circ C$	20	W
Thermal Resistance	θ_{j-c}		5	$^\circ C/W$
Operating Temperature	T_{opr}		-20 to +80	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

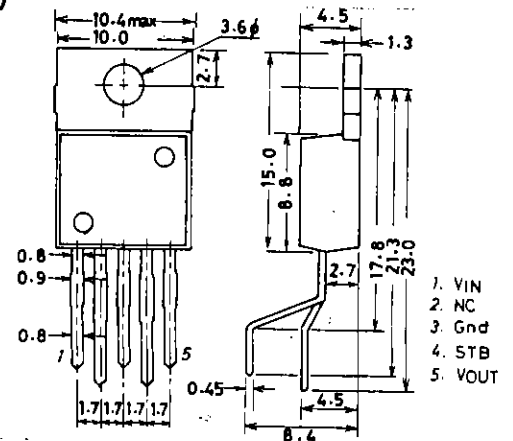
Strobe Operating Characteristics at Ta=25°C

		unit
Strobe Operation Start Voltage	$V_{st(on)}$	2.4 V
Strobe Operation Stop Voltage	$V_{st(off)}$	0.5 V

DC Characteristics Test Circuit (Common to L780S00 series)



Package Dimensions (unit: mm) 3079



1. VIN
2. NC
3. Gnd
4. STB
5. VOUT

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L780S00 Series

L780S05

Recommended Operating Conditions at $T_a=25^\circ\text{C}$

Parameter	Symbol	Value	Unit
Input Voltage Range	V_{IN}	7.5 to 20.0	V
Output Current Range	I_o	5 to 1000	mA

Operating Characteristics at $T_j=25^\circ\text{C}, V_{IN}=10\text{V}, I_o=500\text{mA}, V_{st}=0\text{V}, *T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	min	typ	max	unit
Output Voltage 1	V_{o1}		4.8	5.0	5.2	V
Line Regulation 1	ΔV_{o1n1}	$7\text{V} \leq V_{IN} \leq 25\text{V}$		3	100	mV
Line Regulation 2	ΔV_{o1n2}	$8\text{V} \leq V_{IN} \leq 12\text{V}$		1	50	mV
Load Regulation 1	ΔV_{o1d1}	$5\text{mA} \leq I_o \leq 1.5\text{A}$			100	mV
Load Regulation 2	ΔV_{o1d2}	$250\text{mA} \leq I_o \leq 750\text{mA}$			50	mV
Output Voltage 2	V_{o2}	$7\text{V} \leq V_{IN} \leq 20\text{V}, 5\text{mA} \leq I_o \leq 1\text{A}$	4.75		5.25	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$7\text{V} \leq V_{IN} \leq 25\text{V}$			1.3	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5\text{mA} \leq I_o \leq 1\text{A}$			0.5	mA
Output Noise Voltage	V_{NO}	$10\text{Hz} \leq f \leq 100\text{kHz}^*$		40		μV
Ripple Rejection	R_r	$f=120\text{Hz}, 8\text{V} \leq V_{IN} \leq 18\text{V}$	62	78		dB
Dropout Voltage	V_{drop}	$I_o=1\text{A}$		2.0		V
Output Short Current	I_{os}	$V_{IN}=35\text{V}$		0.75		A
Peak Output Current	I_{op}			2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35\text{V}, V_{st}=5\text{V}, I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

L780S06

Recommended Operating Conditions at $T_a=25^\circ\text{C}$

Parameter	Symbol	Value	Unit
Input Voltage Range	V_{IN}	8.5 to 21.0	V
Output Current Range	I_o	5 to 1000	mA

Operating Characteristics at $T_j=25^\circ\text{C}, V_{IN}=11\text{V}, I_o=500\text{mA}, V_{st}=0\text{V}, *T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	min	typ	max	unit
Output Voltage 1	V_{o1}		5.75	6.0	6.25	V
Line Regulation 1	ΔV_{o1n1}	$8\text{V} \leq V_{IN} \leq 25\text{V}$		5	120	mV
Line Regulation 2	ΔV_{o1n2}	$9\text{V} \leq V_{IN} \leq 13\text{V}$		1.5	60	mV
Load Regulation 1	ΔV_{o1d1}	$5\text{mA} \leq I_o \leq 1.5\text{A}$			120	mV
Load Regulation 2	ΔV_{o1d2}	$250\text{mA} \leq I_o \leq 750\text{mA}$			60	mV
Output Voltage 2	V_{o2}	$8\text{V} \leq V_{IN} \leq 21\text{V}, 5\text{mA} \leq I_o \leq 1\text{A}$	5.7		6.3	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$8\text{V} \leq V_{IN} \leq 25\text{V}$			1.3	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5\text{mA} \leq I_o \leq 1\text{A}$			0.5	mA
Output Noise Voltage	V_{NO}	$10\text{Hz} \leq f \leq 100\text{kHz}^*$		45		μV
Ripple Rejection	R_r	$f=120\text{Hz}, 9\text{V} \leq V_{IN} \leq 19\text{V}$	59	75		dB
Dropout Voltage	V_{drop}	$I_o=1\text{A}$		2.0		V
Output Short Current	I_{os}	$V_{IN}=35\text{V}$		0.75		A
Peak Output Current	I_{op}			2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35\text{V}, V_{st}=5\text{V}, I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

L780S00 Series

L780S07

Recommended Operating Conditions at Ta=25°C

			unit
Input Voltage Range	V_{IN}	9.5 to 22.0	V
Output Current Range	I_o	5 to 1000	mA

Operating Characteristics at Tj=25°C, $V_{IN}=12V, I_o=500mA, V_{st}=0V, *Ta=25°C$

			min	typ	max	unit
Output Voltage 1	V_{o1}		6.72	7.0	7.28	V
Line Regulation 1	ΔV_{oln1}	$9V \leq V_{IN} \leq 26V$		6	140	mV
Line Regulation 2	ΔV_{oln2}	$10V \leq V_{IN} \leq 14V$		2	70	mV
Load Regulation 1	ΔV_{old1}	$5mA \leq I_o \leq 1.5A$			140	mV
Load Regulation 2	ΔV_{old2}	$250mA \leq I_o \leq 750mA$			70	mV
Output Voltage 2	V_{o2}	$9V \leq V_{IN} \leq 22V, 5mA \leq V_{IN} \leq 1A$	6.65		7.35	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln}	$9V \leq V_{IN} \leq 25V$			1.3	mA
Current Dissipation Variation (Load)	ΔI_{ccld}	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz^*$			46	μV
Ripple Rejection	R_r	$f=120Hz, 10V \leq V_{IN} \leq 21V$	58		73	dB
Dropout Voltage	V_{drop}	$I_o=1A$			2.0	V
Output Short Current	I_{os}	$V_{IN}=35V$			0.75	A
Peak Output Current	I_{op}				2.2	A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V, V_{st}=5V, I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

L780S08

Recommended Operating Conditions at Ta=25°C

			unit
Input Voltage Range	V_{IN}	10.5 to 23.0	V
Output Current Range	I_o	5 to 1000	mA

Operating Characteristics at Tj=25°C, $V_{IN}=15V, I_o=500mA, V_{st}=0V, *Ta=25°C$

			min	typ	max	unit
Output Voltage 1	V_{o1}		7.7	8.0	8.3	V
Line Regulation 1	ΔV_{oln1}	$10.5V \leq V_{IN} \leq 25V$		6.0	160	mV
Line Regulation 2	ΔV_{oln2}	$11V \leq V_{IN} \leq 17V$		2.0	80	mV
Load Regulation 1	ΔV_{old1}	$5mA \leq I_o \leq 1.5A$			160	mV
Load Regulation 2	ΔV_{old2}	$250mA \leq I_o \leq 750mA$			80	mV
Output Voltage 2	V_{o2}	$10.5V \leq V_{IN} \leq 23V, 5mA \leq V_{IN} \leq 1A$	7.6		8.4	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln}	$10.5V \leq V_{IN} \leq 25V$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{ccld}	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz^*$			52	μV
Ripple Rejection	R_r	$f=120Hz, 11.5V \leq V_{IN} \leq 21.5V$	56		72	dB
Dropout Voltage	V_{drop}	$I_o=1A$			2.0	V
Output Short Current	I_{os}	$V_{IN}=35V$			0.75	A
Peak Output Current	I_{op}				2.2	A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V, V_{st}=5V, I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

L780S00 Series

L780S09

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Value	Unit
Input Voltage Range	V _{IN}	11.5 to 25.0	V
Output Current Range	I _o	5 to 1000	mA

Operating Characteristics at Tj=25°C, V_{IN}=16V, I_o=500mA, V_{st}=0V, *Ta=25°C

Parameter	Symbol	Conditions	min	typ	max	Unit
Output Voltage 1	Vo1		8.64	9.0	9.36	V
Line Regulation 1	ΔVoln1	11.5V ≤ V _{IN} ≤ 25V		7	180	mV
Line Regulation 2	ΔVoln2	12V ≤ V _{IN} ≤ 20V		2	90	mV
Load Regulation 1	ΔVold1	5mA ≤ I _o ≤ 1.5A			180	mV
Load Regulation 2	ΔVold2	250mA ≤ I _o ≤ 750mA			90	mV
Output Voltage 2	Vo2	11.5V ≤ V _{IN} ≤ 24V, 5mA ≤ I _o ≤ 1A	8.55		9.45	V
Current Dissipation	I _{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{cc} ln	11.5V ≤ V _{IN} ≤ 26V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{cc} ld	5mA ≤ I _o ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*		57		μV
Ripple Rejection	R _r	f=120Hz, 12V ≤ V _{IN} ≤ 22V	56	72		dB
Dropout Voltage	V _{drop}	I _o =1A		2.0		V
Output Short Current	I _{os}	V _{IN} =35V		0.75		A
Peak Output Current	I _{op}			2.2		A
Output Voltage at Strobe Mode	Vo(ston)	V _{IN} =35V, V _{st} =5V, I _o =0,*			0.8	V
Current Dissipation at Strobe Mode	I _{cc} (ston)	"			3.0	mA
Strobe Input Current	I _{st}	"			1.0	mA

L780S10

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Value	Unit
Input Voltage Range	V _{IN}	13.0 to 25.0	V
Output Current Range	I _o	5 to 1000	mA

Operating Characteristics at Tj=25°C, V_{IN}=17V, I_o=500mA, V_{st}=0V, *Ta=25°C

Parameter	Symbol	Conditions	min	typ	max	Unit
Output Voltage 1	Vo1		9.6	10.0	10.4	V
Line Regulation 1	ΔVoln1	12.5V ≤ V _{IN} ≤ 28V		8	200	mV
Line Regulation 2	ΔVoln2	14V ≤ V _{IN} ≤ 20V		2.5	100	mV
Load Regulation 1	ΔVold1	5mA ≤ I _o ≤ 1.5A			200	mV
Load Regulation 2	ΔVold2	250mA ≤ I _o ≤ 750mA			100	mV
Output Voltage 2	Vo2	12.5V ≤ V _{IN} ≤ 25V, 5mA ≤ I _o ≤ 1A	9.5		10.5	V
Current Dissipation	I _{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{cc} ln	12.5V ≤ V _{IN} ≤ 25V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{cc} ld	5mA ≤ I _o ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*		63		μV
Ripple Rejection	R _r	f=120Hz, 13V ≤ V _{IN} ≤ 23V	55	72		dB
Dropout Voltage	V _{drop}	I _o =1A		2.0		V
Output Short Current	I _{os}	V _{IN} =35V		0.75		A
Peak Output Current	I _{op}			2.2		A
Output Voltage at Strobe Mode	Vo(ston)	V _{IN} =35V, V _{st} =5V, I _o =0,*			0.8	V
Current Dissipation at Strobe Mode	I _{cc} (ston)	"			3.0	mA
Strobe Input Current	I _{st}	"			1.0	mA

L780S00 Series

L780S12

Recommended Operating Conditions at Ta=25°C

	unit
Input Voltage Range V_{IN}	15.0 to 27.0 V
Output Current Range I_o	5 to 1000 mA

Operating Characteristics at Tj=25°C, $V_{IN}=19V, I_o=500mA, V_{st}=0V, *Ta=25°C$

		min	typ	max	unit
Output Voltage 1	Vo1	11.5	12.0	12.5	V
Line Regulation 1	ΔV_{oln1} $14.5V \leq V_{IN} \leq 30V$		10	240	mV
Line Regulation 2	ΔV_{oln2} $16V \leq V_{IN} \leq 22V$		3	120	mV
Load Regulation 1	ΔV_{old1} $5mA \leq I_o \leq 1.5A$			240	mV
Load Regulation 2	ΔV_{old2} $250mA \leq I_o \leq 750mA$			120	mV
Output Voltage 2	Vo2 $14.5V \leq V_{IN} \leq 27V, 5mA \leq V_{IN} \leq 1A$	11.4		12.6	V
Current Dissipation	Icc			8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln} $14.5V \leq V_{IN} \leq 30V$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{ccld} $5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO} $10Hz \leq f \leq 100kHz^*$		75		uV
Ripple Rejection	Rr $f=120Hz, 15V \leq V_{IN} \leq 25V$	55	71		dB
Dropout Voltage	Vdrop $I_o=1A$		2.0		V
Output Short Current	Ios $V_{IN}=35V$		0.75		A
Peak Output Current	Iop		2.2		A
Output Voltage at Strobe Mode	Vo(ston) $V_{IN}=35V, V_{st}=5V, I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	Icc(ston) "			3.0	mA
Strobe Input Current	Ist "			1.0	mA

L780S15

Recommended Operating Conditions at Ta=25°C

	unit
Input Voltage Range V_{IN}	18.0 to 30.0 V
Output Current Range I_o	5 to 1000 mA

Operating Characteristics at Tj=25°C, $V_{IN}=23V, I_o=500mA, V_{st}=0V, *Ta=25°C$

		min	typ	max	unit
Output Voltage 1	Vo1	14.4	15.0	15.6	V
Line Regulation 1	ΔV_{oln1} $17.5V \leq V_{IN} \leq 30V$		11	300	mV
Line Regulation 2	ΔV_{oln2} $20V \leq V_{IN} \leq 26V$		3	150	mV
Load Regulation 1	ΔV_{old1} $5mA \leq I_o \leq 1.5A$			300	mV
Load Regulation 2	ΔV_{old2} $250mA \leq I_o \leq 750mA$			150	mV
Output Voltage 2	Vo2 $17.5V \leq V_{IN} \leq 30V, 5mA \leq V_{IN} \leq 1A$	14.25		15.75	V
Current Dissipation	Icc			8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln} $17.5V \leq V_{IN} \leq 30V$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{ccld} $5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO} $10Hz \leq f \leq 100kHz^*$		90		uV
Ripple Rejection	Rr $f=120Hz, 18.5V \leq V_{IN} \leq 28.5V$	54	70		dB
Dropout Voltage	Vdrop $I_o=1A$		2.0		V
Output Short Current	Ios $V_{IN}=35V$		0.75		A
Peak Output Current	Iop		2.2		A
Output Voltage at Strobe Mode	Vo(ston) $V_{IN}=35V, V_{st}=5V, I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	Icc(ston) "			3.0	mA
Strobe Input Current	Ist "			1.0	mA

L780S00 Series

L780S18

Recommended Operating Conditions at Ta=25°C

			unit
Input Voltage Range	V_{IN}	21.0 to 33.0	V
Output Current Range	I_O	5 to 1000	mA

Operating Characteristics at Tj=25°C, $V_{IN}=27V$, $I_O=500mA$, $V_{st}=0V$, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V_{o1}		17.3	18.0	18.7	V
Line Regulation 1	ΔV_{oln1}	$21V \leq V_{IN} \leq 33V$		15	360	mV
Line Regulation 2	ΔV_{oln2}	$24V \leq V_{IN} \leq 30V$		5	180	mV
Load Regulation 1	ΔV_{old1}	$5mA \leq I_O \leq 1.5A$			360	mV
Load Regulation 2	ΔV_{old2}	$250mA \leq I_O \leq 750mA$			180	mV
Output Voltage 2	V_{o2}	$21V \leq V_{IN} \leq 33V$, $5mA \leq V_{IN} \leq 1A$	17.1		18.9	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln}	$21V \leq V_{IN} \leq 33V$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{ccld}	$5mA \leq I_O \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz^*$		110		uV
Ripple Rejection	R_r	$f=120Hz$, $22V \leq V_{IN} \leq 32V$	53	69		dB
Dropout Voltage	V_{drop}	$I_O=1A$		2.0		V
Output Short Current	I_{os}	$V_{IN}=35V$		0.75		A
Peak Output Current	I_{op}			2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V, V_{st}=5V$, $I_O=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

L780S20

Recommended Operating Conditions at Ta=25°C

			unit
Input Voltage Range	V_{IN}	23.0 to 35.0	V
Output Current Range	I_O	5 to 1000	mA

Operating Characteristics at Tj=25°C, $V_{IN}=29V$, $I_O=500mA$, $V_{st}=0V$, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V_{o1}		19.2	20.0	20.8	V
Line Regulation 1	ΔV_{oln1}	$23V \leq V_{IN} \leq 35V$		15	400	mV
Line Regulation 2	ΔV_{oln2}	$26V \leq V_{IN} \leq 32V$		5	200	mV
Load Regulation 1	ΔV_{old1}	$5mA \leq I_O \leq 1.5A$			400	mV
Load Regulation 2	ΔV_{old2}	$250mA \leq I_O \leq 750mA$			200	mV
Output Voltage 2	V_{o2}	$24V \leq V_{IN} \leq 35V$, $5mA \leq V_{IN} \leq 1A$	19.0		21.0	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln}	$23V \leq V_{IN} \leq 35V$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{ccld}	$5mA \leq I_O \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz^*$		110		uV
Ripple Rejection	R_r	$f=120Hz$, $24V \leq V_{IN} \leq 34V$	53	67		dB
Dropout Voltage	V_{drop}	$I_O=1A$		2.0		V
Output Short Current	I_{os}	$V_{IN}=35V$		0.75		A
Peak Output Current	I_{op}			2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V, V_{st}=5V$, $I_O=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

L780500 Series

L780S24

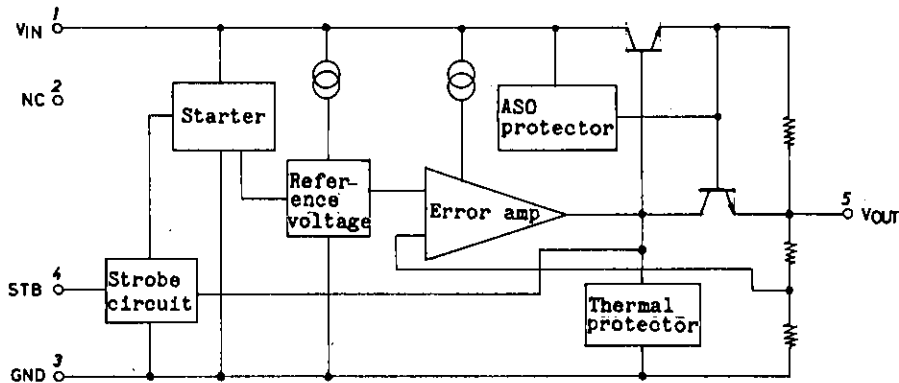
Recommended Operating Conditions at $T_a=25^\circ\text{C}$

Parameter	Symbol	Value	unit
Input Voltage Range	V_{IN}	27.0 to 35.0	V
Output Current Range	I_o	5 to 1000	mA

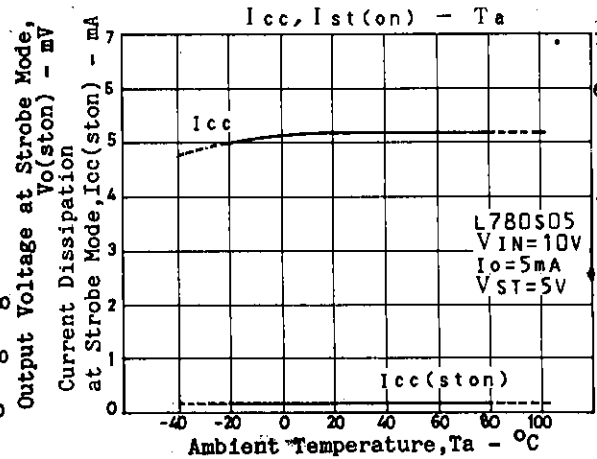
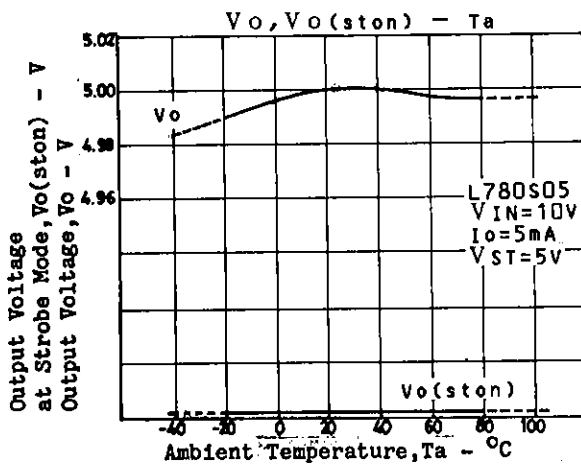
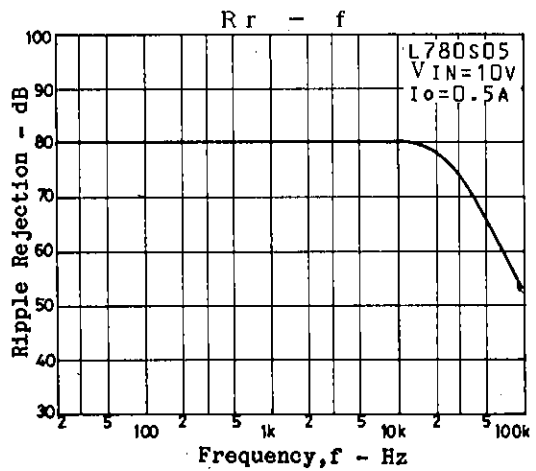
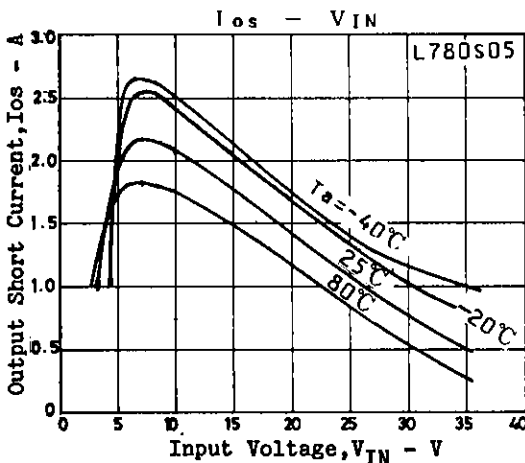
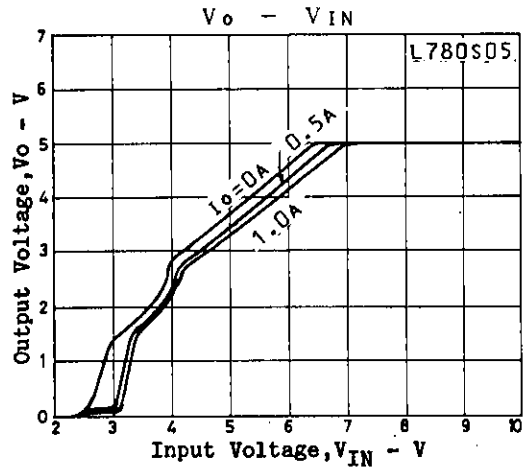
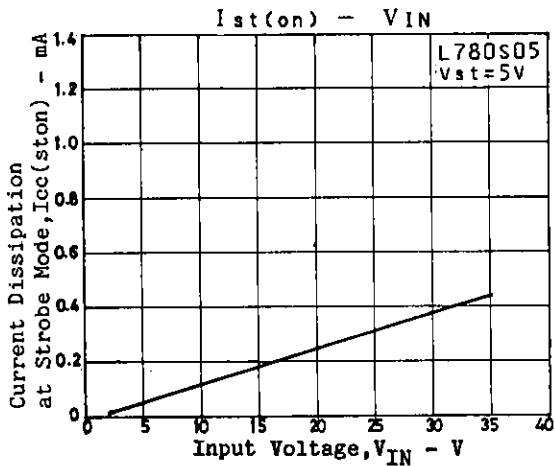
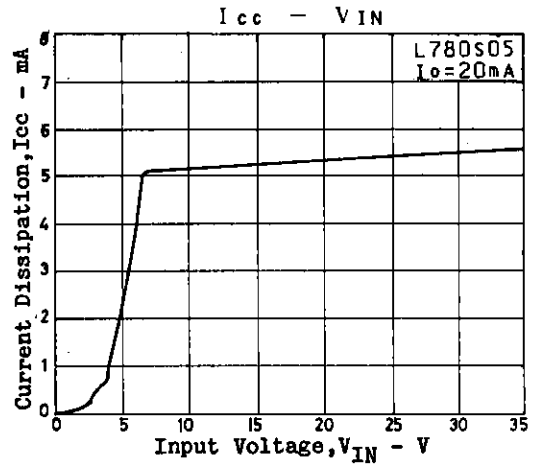
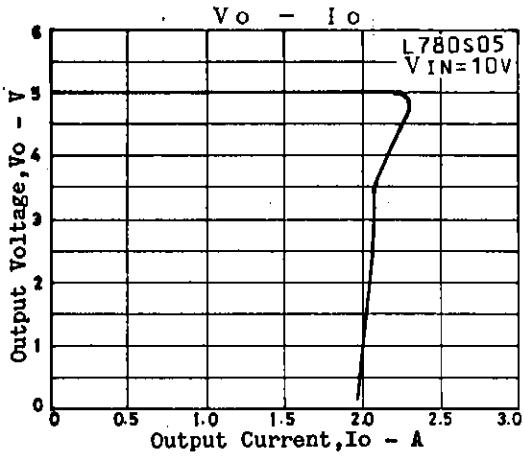
Operating Characteristics at $T_j=25^\circ\text{C}, V_{IN}=33\text{V}, I_o=500\text{mA}, V_{st}=0\text{V}, *T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	min	typ	max	unit
Output Voltage 1	V_{o1}		23.0	24.0	25.0	V
Line Regulation 1	ΔV_{oln1}	$27\text{V} \leq V_{IN} \leq 35\text{V}$		18	480	mV
Line Regulation 2	ΔV_{oln2}	$30\text{V} \leq V_{IN} \leq 35\text{V}$		6	240	mV
Load Regulation 1	ΔV_{old1}	$5\text{mA} \leq I_o \leq 1.5\text{A}$			480	mV
Load Regulation 2	ΔV_{old2}	$250\text{mA} \leq I_o \leq 750\text{mA}$			240	mV
Output Voltage 2	V_{o2}	$27\text{V} \leq V_{IN} \leq 35\text{V},$ $5\text{mA} \leq I_o \leq 1\text{A}$	22.8		25.2	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$27\text{V} \leq V_{IN} \leq 35\text{V}$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{ccld}	$5\text{mA} \leq I_o \leq 1\text{A}$			0.5	mA
Output Noise Voltage	V_{NO}	$10\text{Hz} \leq f \leq 100\text{kHz}^*$		180		μV
Ripple Rejection	R_r	$f=120\text{Hz},$ $28\text{V} \leq V_{IN} \leq 34\text{V}$	50	66		dB
Dropout Voltage	V_{drop}	$I_o=1\text{A}$		2.0		V
Output Short Current	I_{os}	$V_{IN}=35\text{V}$		0.75		A
Peak Output Current	I_{op}			2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35\text{V}, V_{st}=5\text{V},$ $I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	I_{st}	"			1.0	mA

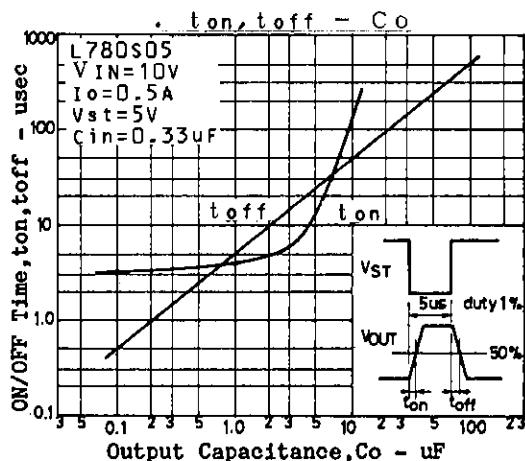
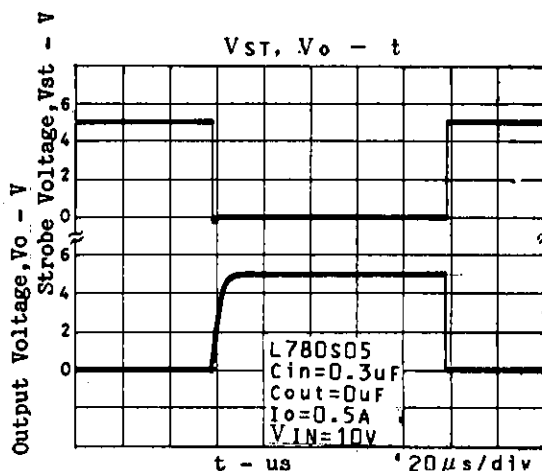
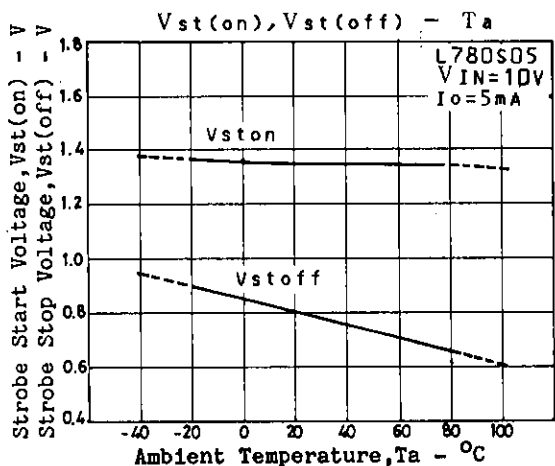
Equivalent Circuit Block Diagram



L780S00 Series



L780S00 Series



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