

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]

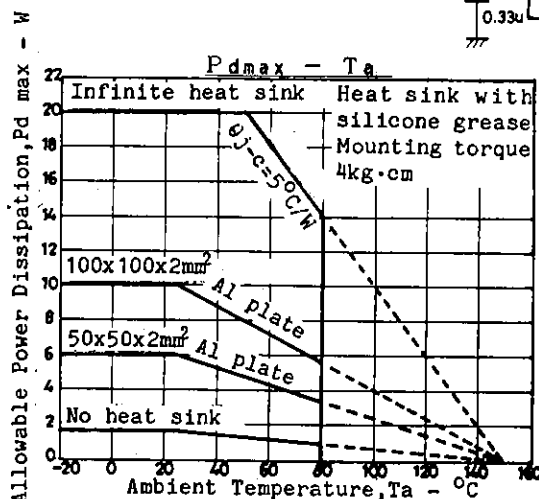
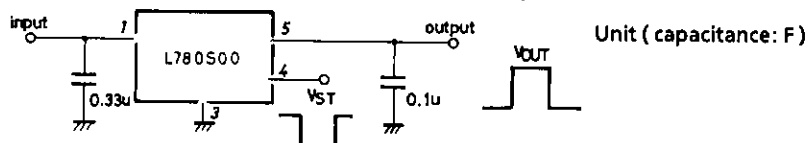
Maximum Ratings at Ta=25°C

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
		Tc=25°C	20 W
Thermal Resistance	θ _{j-c}		5 °C/W
Operating Temperature	T _{opr}		-20 to +80 °C
Storage Temperature	T _{stg}		-55 to +150 °C

Strobe Operating Characteristics at $T_a=25^{\circ}\text{C}$

Strobe Operating Characteristics at Ta=25°C		unit
Strobe Operation Start Voltage	Vst(on)	2.4 V
Strobe Operation Stop Voltage	Vst(off)	0.5 V

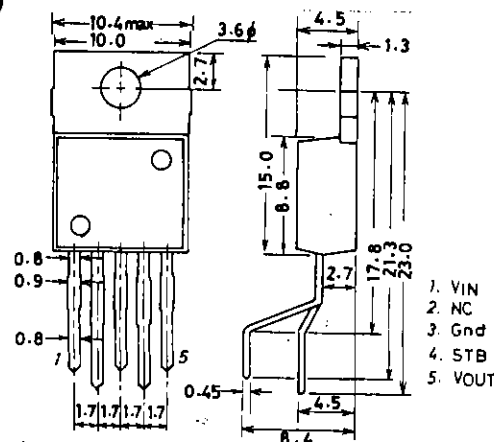
DC Characteristics Test Circuit (Common to L780S00 series)



Package Dimensions

(unit: mm)

3079



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L780S00 Series

L780S05

Recommended Operating Conditions at Ta=25°C

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

Operating Characteristics at Tj=25°C, $V_{IN}=10V$, $I_o=500mA$, $V_{st}=0V$, *Ta=25°C

		min	typ	max	unit
Output Voltage 1	V_{o1}	4.8	5.0	5.2	V
Line Regulation 1	ΔV_{o1n1}	$7V \leq V_{IN} \leq 25V$	3	100	mV
Line Regulation 2	ΔV_{o1n2}	$8V \leq V_{IN} \leq 12V$	1	50	mV
Load Regulation 1	ΔV_{o1d1}	$5mA \leq I_o \leq 1.5A$		100	mV
Load Regulation 2	ΔV_{o1d2}	$250mA \leq I_o \leq 750mA$		50	mV
Output Voltage 2	V_{o2}	$7V \leq V_{IN} \leq 20V$, $5mA \leq V_{IN} \leq 1A$	4.75	5.25	V
Current Dissipation	I_{cc}			8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$7V \leq V_{IN} \leq 25V$		1.3	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz$ *	40		uV
Ripple Rejection	R_r	$f=120Hz$, $8V \leq V_{IN} \leq 18V$	62	78	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

L780S06

Recommended Operating Conditions at Ta=25°C

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

Operating Characteristics at Tj=25°C, $V_{IN}=11V$, $I_o=500mA$, $V_{st}=0V$, *Ta=25°C

		min	typ	max	unit
Output Voltage 1	V_{o1}	5.75	6.0	6.25	V
Line Regulation 1	ΔV_{o1n1}	$8V \leq V_{IN} \leq 25V$	5	120	mV
Line Regulation 2	ΔV_{o1n2}	$9V \leq V_{IN} \leq 13V$	1.5	60	mV
Load Regulation 1	ΔV_{o1d1}	$5mA \leq I_o \leq 1.5A$		120	mV
Load Regulation 2	ΔV_{o1d2}	$250mA \leq I_o \leq 750mA$		60	mV
Output Voltage 2	V_{o2}	$8V \leq V_{IN} \leq 21V$, $5mA \leq V_{IN} \leq 1A$	5.7	6.3	V
Current Dissipation	I_{cc}			8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$8V \leq V_{IN} \leq 25V$		1.3	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz$ *	45		uV
Ripple Rejection	R_r	$f=120Hz$, $9V \leq V_{IN} \leq 19V$	59	75	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

L780S07

Recommended Operating Conditions at Ta=25°C

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_{o1n1}	$9V \leq V_{IN} \leq 26V$	6	140	mV
Line Regulation 2	ΔV_{o1n2}	$10V \leq V_{IN} \leq 14V$	2	70	mV
Load Regulation 1	ΔV_{o1d1}	$5mA \leq I_o \leq 1.5A$		140	mV
Load Regulation 2	ΔV_{o1d2}	$250mA \leq I_o \leq 750mA$		70	mV
Output Voltage 2	V_{o2}	$9V \leq V_{IN} \leq 22V$, $5mA \leq I_o \leq 1A$	6.65	7.35	V
Current Dissipation	I_{cc}			8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$9V \leq V_{IN} \leq 25V$		1.3	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz$ *		46	uV
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

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_{o1n1}	$10.5V \leq V_{IN} \leq 25V$	6.0	160	mV
Line Regulation 2	ΔV_{o1n2}	$11V \leq V_{IN} \leq 17V$	2.0	80	mV
Load Regulation 1	ΔV_{o1d1}	$5mA \leq I_o \leq 1.5A$		160	mV
Load Regulation 2	ΔV_{o1d2}	$250mA \leq I_o \leq 750mA$		80	mV
Output Voltage 2	V_{o2}	$10.5V \leq V_{IN} \leq 23V$, $5mA \leq I_o \leq 1A$	7.6	8.4	V
Current Dissipation	I_{cc}			8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$10.5V \leq V_{IN} \leq 25V$		1.0	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz$ *		52	uV
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

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

		min	typ	max	unit
Output Voltage 1	V_{o1}	8.64	9.0	9.36	V
Line Regulation 1	ΔV_{o1n1}	$11.5V \leq V_{IN} \leq 25V$	7	180	mV
Line Regulation 2	ΔV_{o1n2}	$12V \leq V_{IN} \leq 20V$	2	90	mV
Load Regulation 1	ΔV_{o1d1}	$5mA \leq I_o \leq 1.5A$		180	mV
Load Regulation 2	ΔV_{o1d2}	$250mA \leq I_o \leq 750mA$		90	mV
Output Voltage 2	V_{o2}	$11.5V \leq V_{IN} \leq 24V$, $5mA \leq I_o \leq 1A$	8.55	9.45	V
Current Dissipation	I_{cc}			8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$11.5V \leq V_{IN} \leq 26V$		1.0	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz$ *	57		uV
Ripple Rejection	R_r	$f=120Hz$, $12V \leq V_{IN} \leq 22V$	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	$V_{o(ston)}$	$V_{IN}=35V$, $V_{st}=5V$, $I_o=0$, *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	I_{st}	"		1.0	mA

L780S10

Recommended Operating Conditions at Ta=25°C

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

		min	typ	max	unit
Output Voltage 1	V_{o1}	9.6	10.0	10.4	V
Line Regulation 1	ΔV_{o1n1}	$12.5V \leq V_{IN} \leq 28V$	8	200	mV
Line Regulation 2	ΔV_{o1n2}	$14V \leq V_{IN} \leq 20V$	2.5	100	mV
Load Regulation 1	ΔV_{o1d1}	$5mA \leq I_o \leq 1.5A$		200	mV
Load Regulation 2	ΔV_{o1d2}	$250mA \leq I_o \leq 750mA$		100	mV
Output Voltage 2	V_{o2}	$12.5V \leq V_{IN} \leq 25V$, $5mA \leq I_o \leq 1A$	9.5	10.5	V
Current Dissipation	I_{cc}			8.0	mA
Current Dissipation Variation (Line)	ΔI_{cc1n}	$12.5V \leq V_{IN} \leq 25V$		1.0	mA
Current Dissipation Variation (Load)	ΔI_{cc1d}	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz$ *	63		uV
Ripple Rejection	R_r	$f=120Hz$, $13V \leq V_{IN} \leq 23V$	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	$V_{o(ston)}$	$V_{IN}=35V$, $V_{st}=5V$, $I_o=0$, *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	I_{st}	"		1.0	mA

L780S00 Series

L780S12

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

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

Operating Characteristics at $T_j=25^{\circ}\text{C}$, $V_{IN}=19\text{V}$, $I_o=500\text{mA}$, $V_{st}=0\text{V}$, $*T_a=25^{\circ}\text{C}$

			min	typ	max	unit
Output Voltage 1	V_{o1}		11.5	12.0	12.5	V
Line Regulation 1	ΔV_{oln1}	$14.5\text{V} \leq V_{IN} \leq 30\text{V}$		10	240	mV
Line Regulation 2	ΔV_{oln2}	$16\text{V} \leq V_{IN} \leq 22\text{V}$		3	120	mV
Load Regulation 1	ΔV_{old1}	$5\text{mA} \leq I_o \leq 1.5\text{A}$			240	mV
Load Regulation 2	ΔV_{old2}	$250\text{mA} \leq I_o \leq 750\text{mA}$			120	mV
Output Voltage 2	V_{o2}	$14.5\text{V} \leq V_{IN} \leq 27\text{V}$, $5\text{mA} \leq V_{IN} \leq 1\text{A}$	11.4		12.6	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln}	$14.5\text{V} \leq V_{IN} \leq 30\text{V}$			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}	$10\text{Hz} \leq f \leq 100\text{kHz}$ *		75		μV
Ripple Rejection	R_r	$f=120\text{Hz}$, $15\text{V} \leq V_{IN} \leq 25\text{V}$	55	71		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

L780S15

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

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

Operating Characteristics at $T_j=25^{\circ}\text{C}$, $V_{IN}=23\text{V}$, $I_o=500\text{mA}$, $V_{st}=0\text{V}$, $*T_a=25^{\circ}\text{C}$

			min	typ	max	unit
Output Voltage 1	V_{o1}		14.4	15.0	15.6	V
Line Regulation 1	ΔV_{oln1}	$17.5\text{V} \leq V_{IN} \leq 30\text{V}$		11	300	mV
Line Regulation 2	ΔV_{oln2}	$20\text{V} \leq V_{IN} \leq 26\text{V}$		3	150	mV
Load Regulation 1	ΔV_{old1}	$5\text{mA} \leq I_o \leq 1.5\text{A}$			300	mV
Load Regulation 2	ΔV_{old2}	$250\text{mA} \leq I_o \leq 750\text{mA}$			150	mV
Output Voltage 2	V_{o2}	$17.5\text{V} \leq V_{IN} \leq 30\text{V}$, $5\text{mA} \leq V_{IN} \leq 1\text{A}$	14.25		15.75	V
Current Dissipation	I_{cc}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{ccln}	$17.5\text{V} \leq V_{IN} \leq 30\text{V}$			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}	$10\text{Hz} \leq f \leq 100\text{kHz}$ *		90		μV
Ripple Rejection	R_r	$f=120\text{Hz}$, $18.5\text{V} \leq V_{IN} \leq 28.5\text{V}$	54	70		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

L780S18

Recommended Operating Conditions at Ta=25°C

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

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

L780S00 Series

L780S24

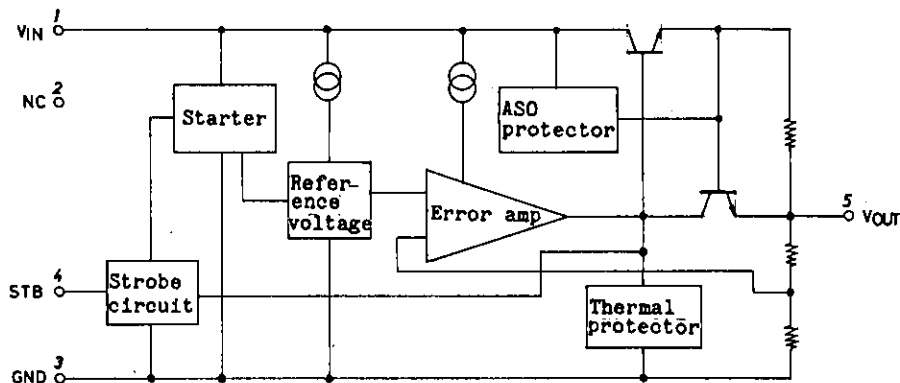
Recommended Operating Conditions at $T_a=25^{\circ}\text{C}$

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

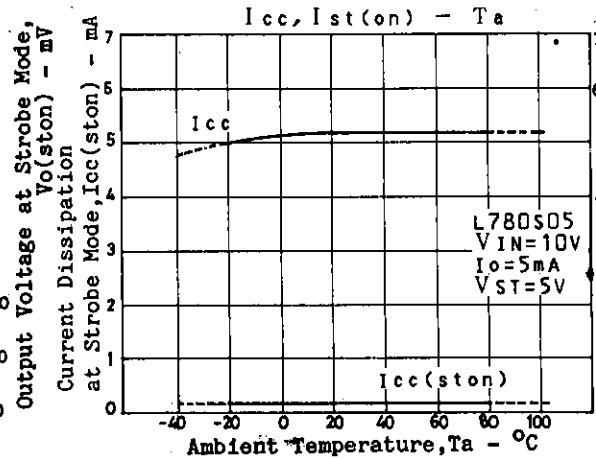
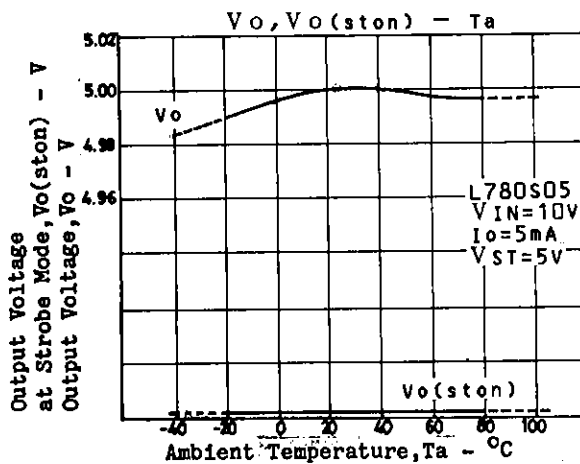
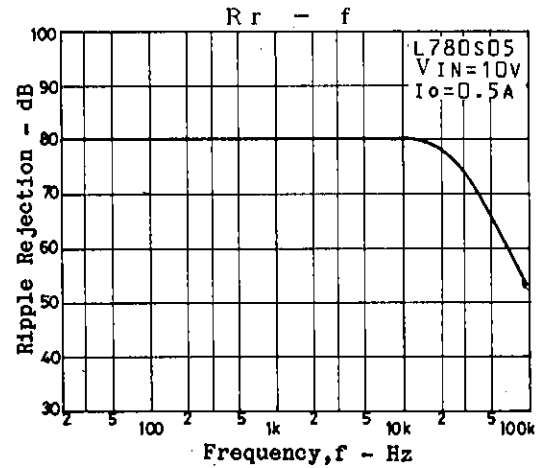
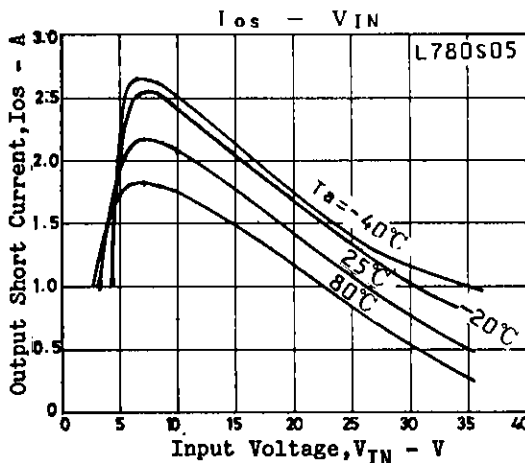
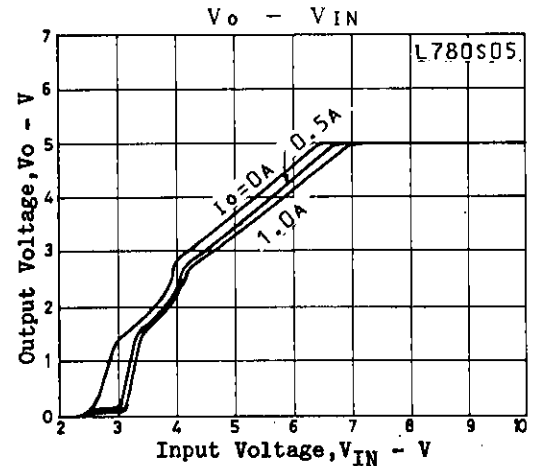
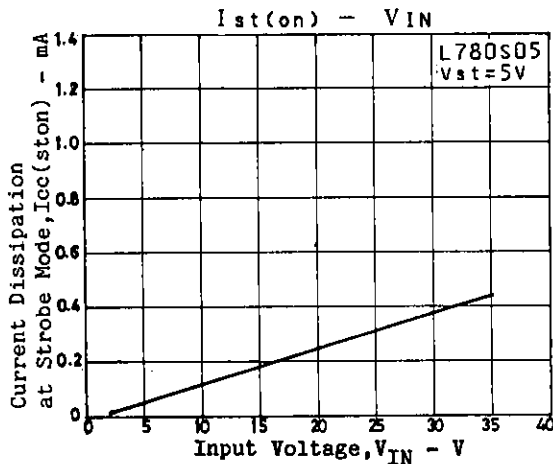
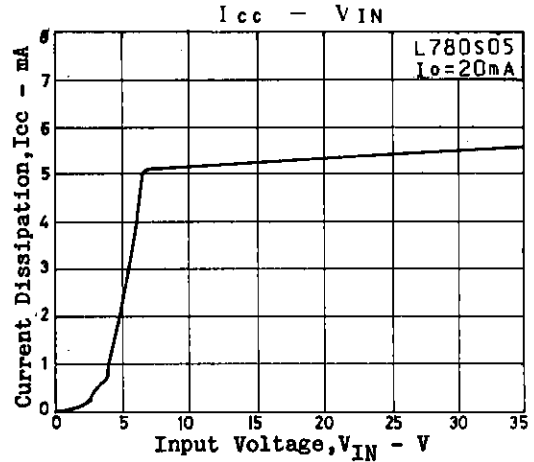
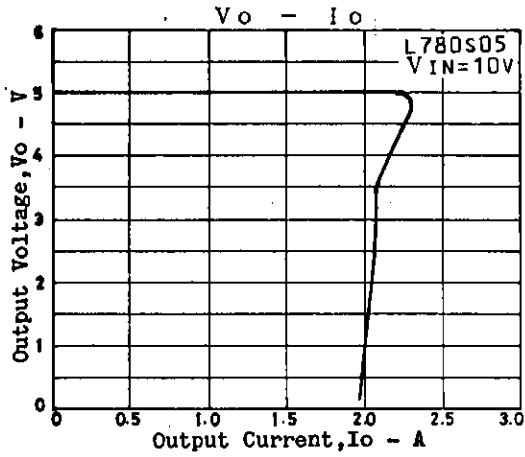
Operating Characteristics at $T_j=25^{\circ}\text{C}$, $V_{IN}=33\text{V}$, $I_o=500\text{mA}$, $V_{st}=0\text{V}$, $*T_a=25^{\circ}\text{C}$

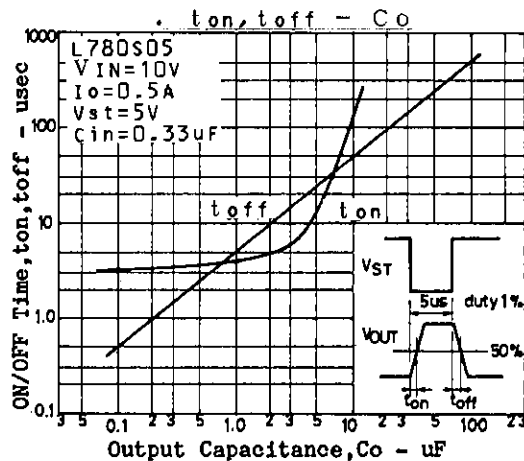
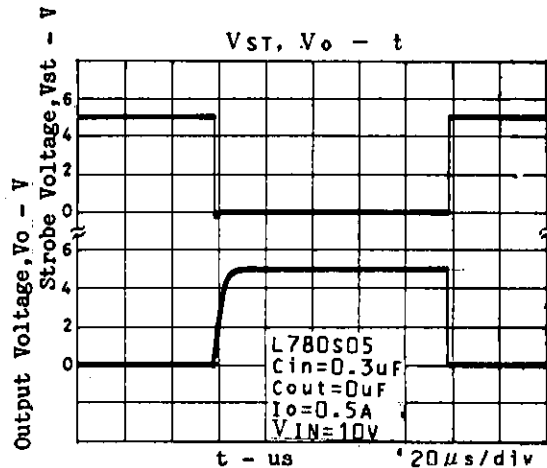
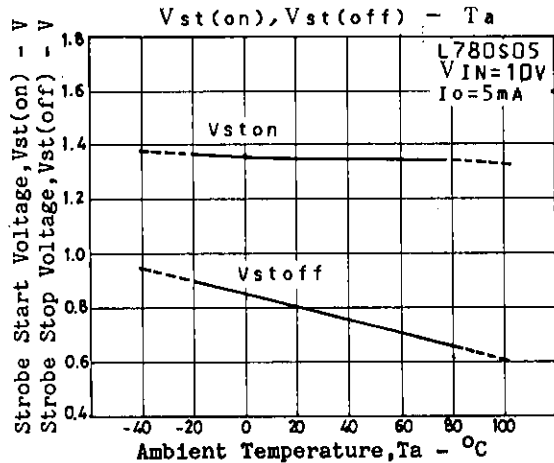
			min	typ	max	unit
Output Voltage 1	V_{o1}		23.0	24.0	25.0	V
Line Regulation 1	ΔV_{o1n1}	$27\text{V} \leq V_{IN} \leq 35\text{V}$		18	480	mV
Line Regulation 2	ΔV_{o1n2}	$30\text{V} \leq V_{IN} \leq 35\text{V}$		6	240	mV
Load Regulation 1	ΔV_{o1d1}	$5\text{mA} \leq I_o \leq 1.5\text{A}$			480	mV
Load Regulation 2	ΔV_{o1d2}	$250\text{mA} \leq I_o \leq 750\text{mA}$			240	mV
Output Voltage 2	V_{o2}	$27\text{V} \leq V_{IN} \leq 35\text{V}$, $5\text{mA} \leq V_{IN} \leq 1\text{A}$	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_{cc1d}	$5\text{mA} \leq I_o \leq 1\text{A}$			0.5	mA
Output Noise Voltage	V_{NO}	$10\text{Hz} \leq f \leq 100\text{kHz}^*$		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





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