

No.2605B

L79M00T Series

-5 to -12V 0.5A 3-Pin Voltage Regulators

Features

- Output voltage L79M05T: -5V L79M06T: -6V L79M08T: -8V L79M09T: -9V L79M10T: -10V L79M12T: -12V
- · 500mA output
- · Small-sized power package TP-3H permitting the equipment to be made compact
- · The allowable power dissipation can be increased by being surface-mounted on the board.
- · Capable of being mounted in a variety of methods because of various lead forming versions available
- · On-chip protectors (overcurrent limiter, ASO protector, thermal protector)
- · Can meet tape-used automatic mounting requirements.

[Common to L79M00T series]

Maximum Ratings at Ta = 25°C

Laximain Hannes at La-20 C				unit
Maximum Supply Voltage	V_{CC} max	-5 to -12 V output	-35	V
Allowable Power Dissipation	Pd max	-	1.0	W
Operating Temperature	Topr		-30 to +80	°C
Storage Temperature	Tstg		-40 to +150	°Ĉ

[L79M05T]

Recommended Operating Conditions at Ta = 25°C

-	8		umit
Input Voltage	$ m V_{IN}$	-20 to -7.5	v
Output Current	I _{OUT}		mÅ

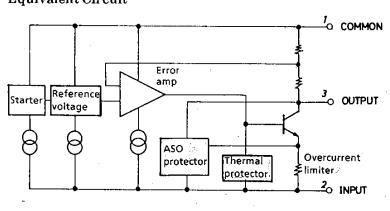
Operating Characteristics at Ta = 25°C, $V_{\rm IN}$ = -10V, $I_{\rm OUT}$ = 350mA, $C_{\rm IN}$ = 2 μ F, $C_{\rm OUT}$ = 1 μ F

0 4 4 17 14			111111	ιyp	max	unit
Output Voltage	$ m v_{out}$	Tj=25°C	-5.2	-5.0	-4.8	V
Line Regulation	$\Delta m V_{oline}$	$T_{\rm j} = 25^{\circ}\text{C}, -25\text{V} \le V_{\rm IN} \le -7\text{V}$		7.0	50	mV
T 15 1	•	$Tj = 25$ °C, $-18V \le V_{IN} \le -8V$		3.0	30	mV
Load Regulation	$\Delta m V_{oload}$	$Tj = 25$ °C, $5mA \le I_{OUT} \le 500mA$		10	100	mV
•		$Tj = 25$ °C,5mA $\leq I_{OUT} \leq 350$ mA		5		mV
				_		

Continued on next page.

unit

Equivalent Circuit



Package Dimensions 3110-S3HIC (unit: mm)

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L79M00T Series

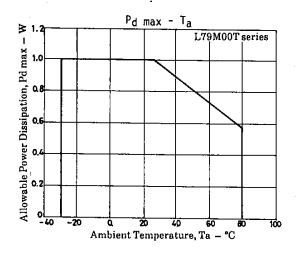
		•				
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Output Voltage	V_{OUT}	$-25V \le V_{IN} \le -7V,$	min -5.25	typ	max 4.75	unit V
Current Dissination	I.a.a.'	5mA≦I _{OUT} ≦350mA Tj=25°C		1.0	2.5	mA
Current Dissipation Current Dissipation	I_{CC} ΔI_{CCline}	$-25V \le V_{\rm IN} \le -8V$		1.0	1.0	mA
Variation (Line)	Diccline	-20 V = VIN = -0 V			1.0	*****
Current Dissipation	ΔI_{CCload}	$5mA \le I_{OUT} \le 350mA$			0.4	mA
Variation (Load)	Ollowa					
Output Noise Voltage	V_{NO}	10Hz≤f≤100kHz		125		μV
Ripple Rejection	R_{rej}	$f = 120 Hz \qquad I_{OUT} = 100 m.$				dB
		$\begin{vmatrix} -18V \le V_{IN} \le -8V & I_{OUT} = 300 \text{m.} \\ T_{J} = 25^{\circ}\text{C} \end{vmatrix}$	A 50	65		dB
Minimum Input-Output	V_{drop}	$Tj = 25$ °C, $I_{OUT} = 350$ mA		1.1		v
Voltage Drop	агор	, , , , ,				
Short Current	I_{OS}	$Tj = 25$ °C, $V_{IN} = -30$ V		130		mA
Peak Output Current	Iop			800		mA
II GOMOGON						
[L79M06T]	• () 1:4:	- 1 FI 0F0G				
Recommended Operating Input Voltage	V _{IN}	s at Ta = 25°C	-21 to	25	unit V	
Output Current	I _{OUT}			o 500	mA	
· ·	-001		0.0	0 000	*****	
Operating Characteristic	s at $Ta = 25^{\circ}$	$C_{VIN} = -11V_{IOUT} = 350 \text{mA}, C_{IN} = 2\mu$	F,C _{OUT}	$=1\mu F$	1	
			min	typ	max	unit
Output Voltage	V_{OUT}	Tj = 25°C	-6.25	-6.0-	-5.75	V
Line Regulation	ΔV_{oline}	$Tj = 25^{\circ}C, -25V \le V_{IN} \le -8V$		7.0	60	mV
Load Domilation	A 37	$Tj = 25^{\circ}C, -19V \le V_{IN} \le -9V$		3.0	40	mV
Load Regulation	ΔV_{oload}	$Tj = 25^{\circ}C,5mA \le I_{OUT} \le 500mA$ $Tj = 25^{\circ}C,5mA \le I_{OUT} \le 350mA$		10 5	120	mV V
Output Voltage	v_{our}	$-25V \le V_{IN} \le -8V$,	-6.3	ð	-5.7	${}^{ m mV}$
o aspar volvago	1001	$5mA \le I_{OUT} \le 350mA$	-0.5		- 0.1	v
Current Dissipation	I_{CC}	Tj=25°C		1.0	2.5	mA
Current Dissipation	ΔI_{CCline}	$-25V \le V_{\rm IN} \le -9V$			1.0	mA
Variation (Line)						
Current Dissipation	ΔI_{CCload}	$5mA \le I_{OUT} \le 350mA$			0.4	mA
Variation (Load)	**	4077 - 40-44-1-7				
Output Noise Voltage Ripple Rejection	V_{NO}	10Hz≦f≦100kHz		150		μV
Ripple Rejection	R_{rej}	$f=120$ Hz $I_{OUT}=100$ m/		c.r		dB
		$-19V \le V_{IN} \le -9V$ $I_{OUT} = 300 \text{m/s}$ $T_{J} = 25^{\circ}\text{C}$	A 50	65		dB
Minimum Input-Output	V_{drop}	$T_j = 25$ °C, $I_{OUT} = 350$ mA		1.1		v
Voltage Drop	· urop	25 25 5,2001 000m11		1.1		•
Short Current	I_{OS}	$T_j = 25$ °C, $V_{IN} = -30$ V		130		mA
Peak Output Current	Iop	/ - -		800		mA
II MOMOOWI						
[L79M08T]	. Canalist	a at ma — 9590			1.	
Recommended Operating Input Voltage		S at 1a = 20 °C	0 0 t−	11	unit	
Output Current	V _{IN} I _{OUT}		- 23 to	-11 0500	V m A	
- mepar - marionio	-001		J	0 000	mA	

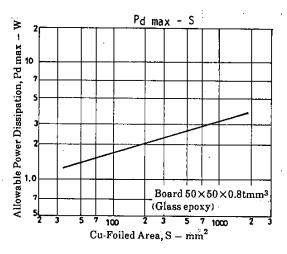
L79M00T Series

	s at $Ta = 2$	$5^{\circ}\text{C,V}_{\text{IN}} = -14\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F}$	'.Corr	-1uF	ı	
3			min	_	max	unit
Output Voltage	V_{OUT}	Tj=25°C	-8.3	-8.0	-7.7	V
Line Regulation	ΔV_{oline}	$T_j = 25$ °C, $-25V \le V_{IN} \le -10.5V$		8.0	80	mV
		$T_j = 25^{\circ}C, -21V \le V_{IN} \le -11V$		4.0	50	mV
Load Regulation	ΔV_{oload}	$Tj = 25$ °C,5 $mA \le I_{OUT} \le 500mA$		11	160	mV
		$Tj = 25^{\circ}C, 5mA \le I_{OUT} \le 350mA$		6		mV
Output Voltage	v_{out}	$-25V \le V_{IN} \le -10.5V$,	-8.4		-7.6	V
		$5mA \le I_{OUT} \le 350mA$				
Current Dissipation	I_{CC}	Tj = 25°C		1.0	2.5	mΑ
Current Dissipation Variation (Line)	ΔI_{CCline}	$-25V \le V_{\rm IN} \le -10.5V$			1.0	mA
Current Dissipation Variation (Load)	ΔI_{CCload}	$5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$			0.4	mΑ
Output Noise Voltage	V_{NO}	$10\text{Hz} \le \text{f} \le 100\text{kHz}$		200		μV
Ripple Rejection	R_{rej}	$f = 120$ Hz $ I_{OUT} = 100$ mA	50	200		dB
2012610 20030000	rej	$-21.5V \le V_{IN} \le -11.5V I_{OUT} = 300 \text{mA}$		64		dB
		Tj=25°C		01		ub
Minimum Input-Output	V_{drop}	Tj = 25°C,I _{OUT} = 350mA		1.1		v
Voltage Drop Short Current	т	m: _ 0590 M 20M		100		
	I_{OS}	$T_j = 25^{\circ}C, V_{IN} = -30V$		130		mA
Peak Output Current	Iop			800		mA
[L79M09T]						
Recommended Operating	g Conditio	ons at Ta = 25°C			unit	
Input Voltage	V _{IN}		25 to	_12	V	
Output Current	I _{OUT}			o 500	mA	
1 1	-001		•	.000	****	
Operating Characteristic						
Operating Characteristic	s at $Ta = 2$	$5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F}$	$^{\circ}$, $^{\circ}$ COUI	$=1\mu F$		
			C _{OU} 1 min	=1µF typ	max	unit
Output Voltage	v_{out}	Tj = 25°C	min	_	max	unit V
		Tj = 25°C $Tj = 25$ °C, -25 V $\leq V_{IN} \leq -11.5$ V	min	typ	max	
Output Voltage Line Regulation	$\begin{array}{c} V_{OUT} \\ \Delta V_{oline} \end{array}$	$T_j = 25$ °C $T_j = 25$ °C, -25 V $\leq V_{IN} \leq -11.5$ V $T_j = 25$ °C, -20 V $\leq V_{IN} \leq -12$ V	min	typ -9.0 8.0 4.0	max -8.6	V
Output Voltage	v_{out}	Tj = 25°C $Tj = 25$ °C, $-25V \le V_{IN} \le -11.5V$ $Tj = 25$ °C, $-20V \le V_{IN} \le -12V$ $Tj = 25$ °C,5mA $\le I_{OUT} \le 500$ mA	min	typ -9.0 8.0 4.0 12	max -8.6 80	V mV
Output Voltage Line Regulation Load Regulation	$V_{OUT} \\ \Delta V_{oline} \\ \Delta V_{oload}$	$\begin{split} & Tj = 25^{\circ}C \\ & Tj = 25^{\circ}C, -25V \le V_{IN} \le -11.5V \\ & Tj = 25^{\circ}C, -20V \le V_{IN} \le -12V \\ & Tj = 25^{\circ}C, 5mA \le I_{OUT} \le 500mA \\ & Tj = 25^{\circ}C, 5mA \le I_{OUT} \le 350mA \end{split}$	min -9.4	typ -9.0 8.0 4.0	max -8.6 80 50 200	V mV mV mV
Output Voltage Line Regulation	$\begin{array}{c} V_{OUT} \\ \Delta V_{oline} \end{array}$	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \end{split}$	min	typ -9.0 8.0 4.0 12	max -8.6 80 50	V mV mV
Output Voltage Line Regulation Load Regulation Output Voltage	$egin{aligned} V_{OUT} \ \Delta V_{oline} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200	V mV mV mV
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation	$egin{array}{l} V_{ m OUT} \ \Delta V_{ m oline} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{split} &Tj\!=\!25^{\circ}C\\ &Tj\!=\!25^{\circ}C, -25V\!\leq\!V_{IN}\!\leq\!-11.5V\\ &Tj\!=\!25^{\circ}C, -20V\!\leq\!V_{IN}\!\leq\!-12V\\ &Tj\!=\!25^{\circ}C, 5mA\!\leq\!I_{OUT}\!\leq\!500mA\\ &Tj\!=\!25^{\circ}C, 5mA\!\leq\!I_{OUT}\!\leq\!350mA\\ &-25V\!\leq\!V_{IN}\!\leq\!-11.5V,\\ &5mA\!\leq\!I_{OUT}\!\leq\!350mA\\ &Tj\!=\!25^{\circ}C \end{split}$	min -9.4	typ -9.0 8.0 4.0 12	max -8.6 80 50 200 -8.5	V mV mV mV
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation	$egin{aligned} V_{OUT} \ \Delta V_{oline} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200	V mV mV mV V
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line)	V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline}	$\begin{split} Tj &= 25^{\circ}C \\ Tj &= 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ Tj &= 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ Tj &= 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ Tj &= 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ -25V \leq V_{IN} \leq -11.5V, \\ 5mA \leq I_{OUT} \leq 350mA \\ Tj &= 25^{\circ}C \\ -25V \leq V_{IN} \leq -11.5V \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV v v
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation	$egin{array}{l} V_{ m OUT} \ \Delta V_{ m oline} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{split} &Tj\!=\!25^{\circ}C\\ &Tj\!=\!25^{\circ}C, -25V\!\leq\!V_{IN}\!\leq\!-11.5V\\ &Tj\!=\!25^{\circ}C, -20V\!\leq\!V_{IN}\!\leq\!-12V\\ &Tj\!=\!25^{\circ}C, 5mA\!\leq\!I_{OUT}\!\leq\!500mA\\ &Tj\!=\!25^{\circ}C, 5mA\!\leq\!I_{OUT}\!\leq\!350mA\\ &-25V\!\leq\!V_{IN}\!\leq\!-11.5V,\\ &5mA\!\leq\!I_{OUT}\!\leq\!350mA\\ &Tj\!=\!25^{\circ}C \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload}	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leq V_{IN} \leq -11.5V \\ &5mA \leq I_{OUT} \leq 350mA \\ \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	$V_{OUT} \\ \Delta V_{oline}$ ΔV_{oload} V_{OUT} $I_{CC} \\ \Delta I_{CCline}$ ΔI_{CCload} V_{NO}	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leq V_{IN} \leq -11.5V \\ &5mA \leq I_{OUT} \leq 350mA \\ &10Hz \leq f \leq 100kHz \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload}	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leqq V_{IN} \leqq -11.5V \\ &Tj = 25^{\circ}C, -20V \leqq V_{IN} \leqq -12V \\ &Tj = 25^{\circ}C, 5mA \leqq I_{OUT} \leqq 500mA \\ &Tj = 25^{\circ}C, 5mA \leqq I_{OUT} \leqq 350mA \\ &-25V \leqq V_{IN} \leqq -11.5V, \\ &5mA \leqq I_{OUT} \leqq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leqq V_{IN} \leqq -11.5V \\ &5mA \leqq I_{OUT} \leqq 350mA \\ &10Hz \leqq f \leqq 100kHz \\ &f = 120Hz \\ &I_{OUT} = 100mA \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	$V_{OUT} \\ \Delta V_{oline}$ ΔV_{oload} V_{OUT} $I_{CC} \\ \Delta I_{CCline}$ ΔI_{CCload} V_{NO}	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leq V_{IN} \leq -11.5V \\ &5mA \leq I_{OUT} \leq 350mA \\ &10Hz \leq f \leq 100kHz \\ &f = 120Hz \\ &-22.5V \leq V_{IN} \leq -12.5V \\ &I_{OUT} = 300mA \\ &I_{OUT} = 300mA \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Minimum Input-Output	$V_{OUT} \\ \Delta V_{oline}$ ΔV_{oload} V_{OUT} $I_{CC} \\ \Delta I_{CCline}$ ΔI_{CCload} V_{NO}	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leqq V_{IN} \leqq -11.5V \\ &Tj = 25^{\circ}C, -20V \leqq V_{IN} \leqq -12V \\ &Tj = 25^{\circ}C, 5mA \leqq I_{OUT} \leqq 500mA \\ &Tj = 25^{\circ}C, 5mA \leqq I_{OUT} \leqq 350mA \\ &-25V \leqq V_{IN} \leqq -11.5V, \\ &5mA \leqq I_{OUT} \leqq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leqq V_{IN} \leqq -11.5V \\ &5mA \leqq I_{OUT} \leqq 350mA \\ &10Hz \leqq f \leqq 100kHz \\ &f = 120Hz \\ &I_{OUT} = 100mA \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Minimum Input-Output Voltage Drop	$egin{array}{l} V_{OUT} \ \Delta V_{oline} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leq V_{IN} \leq -11.5V \\ &5mA \leq I_{OUT} \leq 350mA \\ &10Hz \leq f \leq 100kHz \\ &f = 120Hz & I_{OUT} = 100mA \\ &-22.5V \leq V_{IN} \leq -12.5V & I_{OUT} = 300mA \\ &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, I_{OUT} = 350mA \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7 1.0	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA μV dB dB
Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Minimum Input-Output	$\begin{array}{c} V_{OUT} \\ \Delta V_{oline} \\ \end{array}$ $\begin{array}{c} \Delta V_{oload} \\ V_{OUT} \\ \\ I_{CC} \\ \Delta I_{CCline} \\ \\ \Delta I_{CCload} \\ \\ V_{NO} \\ R_{rej} \end{array}$	$\begin{split} &Tj = 25^{\circ}C \\ &Tj = 25^{\circ}C, -25V \leq V_{IN} \leq -11.5V \\ &Tj = 25^{\circ}C, -20V \leq V_{IN} \leq -12V \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 500mA \\ &Tj = 25^{\circ}C, 5mA \leq I_{OUT} \leq 350mA \\ &-25V \leq V_{IN} \leq -11.5V, \\ &5mA \leq I_{OUT} \leq 350mA \\ &Tj = 25^{\circ}C \\ &-25V \leq V_{IN} \leq -11.5V \\ &5mA \leq I_{OUT} \leq 350mA \\ &10Hz \leq f \leq 100kHz \\ &f = 120Hz \\ &-22.5V \leq V_{IN} \leq -12.5V \\ &I_{OUT} = 300mA \\ &Tj = 25^{\circ}C \\ \end{split}$	min -9.4	typ -9.0 8.0 4.0 12 7 1.0	max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mV A mA mA MA MB dB

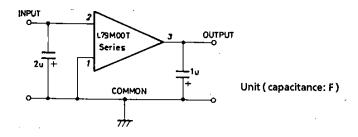
L79M00T Series

[L79M10T] Recommended Operatin	g Conditio	ons at Ta = 25°C			unit	
Input Voltage	V _{IN}	OMS 40 14 - 20 C	– 25 to	_ 13	V	
Output Current	I _{OUT}			to 500	mA	
	-001	•	•		*****	•
Operating Characteristic	es at Ta=2	$25^{\circ}\text{C}, V_{\text{IN}} = -17V, I_{\text{OUT}} = 350 \text{mA}, C_{\text{IN}} = 2V$	uF,C _{OUT}	r=1µF typ	max	unit
Output Voltage	V_{OUT}	Tj=25°C	-10.4	-10	-9.6	V
Line Regulation	ΔV_{oline}	$T_{\rm j} = 25^{\circ}\text{C}, -25\text{V} \le V_{\rm IN} \le -12.5\text{V}$	10.1	9.0	80	mV
Ü	011116	$T_{\rm j} = 25^{\circ}{\rm C}, -22{\rm V} \le {\rm V_{IN}} \le -13{\rm V}$		5.0	50	mV
Load Regulation	ΔV_{oload}	$Tj = 25^{\circ}C,5mA \le I_{OUT} \le 500mA$		12	200	mV
<u> </u>	oroau	$T_j = 25^{\circ}C,5mA \le I_{OUT} \le 350mA$		7	200	mV
Output Voltage	v_{out}	$-25V \le V_{\rm IN} \le -12.5V$	-10.5	•	-9.5	v
	001	5mA≤I _{OUT} ≤350mA	20.0		0.0	•
Current Dissipation	I_{CC}	Tj = 25°C		1.0	2.5	mA
Current Dissipation	Δl_{CCline}	$-25V \le V_{IN} \le -12.5V$		1.0	1.0	mA
Variation (Line)	Comic	M4			2.0	14711
Current Dissipation	ΔI_{CCload}	5mA≤I _{OUT} ≤350mA			0.4	mA
Variation (Load)	Olload	001			0. 1	111,7 1
Output Noise Voltage	V_{NO}	10Hz≨f≦100kHz		250		μV
Ripple Rejection	R_{rei}	$f = 120$ Hz $ I_{OUT} = 100$ m	A 50			dΒ
	103	$-23.5V \le V_{\rm IN} \le -13.5V$ $I_{\rm OUT} = 300 {\rm m}$		63		dB
		Tj=25°C	00	00		uБ
Minimum Input-Output	$ m V_{drop}$	$T_j = 25$ °C, $I_{OUT} = 350$ mA		1.1		V
Voltage Drop	4.0%	, , , , , , , , , , , , , , , , , , , ,		2.2		•
Short Current	I_{OS}	$Tj = 25$ °C, $V_{IN} = -30$ V		130		mΑ
Peak Output Current	Iop	3 = 5, 11V		800		mA
-	•			000		11117
[L79M12T]						
[L79M12T] Recommended Operating	g Conditic	ons at Ta = 25°C			unit	
		ons at Ta=25°C	– 25 to	15	unit V	
Recommended Operating	V_{IN}	ons at Ta = 25°C	– 25 to		V	
Recommended Operating Input Voltage Output Current	V_{IN} I_{OUT}		5 t	o 500	V mA	
Recommended Operating Input Voltage Output Current	V_{IN} I_{OUT}		5 t	o 500	V mA	
Recommended Operating Input Voltage Output Current	V_{IN} I_{OUT}	ons at Ta = 25°C 5°C,V _{IN} = -19V,I _{OUT} = 350mA,C _{IN} = 2μ	5 t F,C _{QUT}	o 500 = 1µF	V mA	unit
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage	V_{IN} I_{OUT}		5 t F,C _{OUT} min	o 500 = 1µF typ	V mA max	unit V
Recommended Operating Input Voltage Output Current Operating Characteristic	$V_{ m IN}$ $I_{ m OUT}$ s at Ta = 2 $V_{ m OUT}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $\text{Tj} = 25^{\circ}\text{C}$	5 t F,C _{QUT}	o 500 = 1µF typ 12-	V mA max -11.5	V
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage	V_{IN} I_{OUT} s at Ta = 2	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}$	5 t F,C _{OUT} min	o 500 = 1µF typ - 12 - 9.0	V mA max -11.5	V mV
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage	V_{IN} I_{OUT} s at $Ta = 2$ V_{OUT} $\Delta V_{\mathrm{oline}}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $\text{Tj} = 25^{\circ}\text{C}$	5 t F,C _{OUT} min	o 500 = 1μF typ - 12 - 9.0 5.0	V mA max -11.5 80 50	V mV mV
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation	$V_{ m IN}$ $I_{ m OUT}$ s at Ta = 2 $V_{ m OUT}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \le \text{I}_{\text{OUT}} \le 500\text{mA}$	5 t F,C _{OUT} min	o 500 = 1μF typ - 12 - 9.0 5.0 9	V mA max -11.5	V mV mV
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation	V_{IN} I_{OUT} s at $Ta = 2$ V_{OUT} $\Delta V_{\mathrm{oline}}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$	5 t F,C _{OUT} min -12.5	o 500 = 1µF typ - 12 - 9.0 5.0 9 6	Max -11.5 80 50 240	V mV mV
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation	V_{IN} I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \le \text{I}_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \le \text{I}_{\text{OUT}} \le 350\text{mA}$	5 t F,C _{OUT} min	o 500 = 1µF typ - 12 - 9.0 5.0 9 6	V mA max -11.5 80 50	V mV mV mV
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation	V_{IN} I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \le \text{I}_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \le \text{I}_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V,}$	5 t F,C _{OUT} min -12.5	0 500 = 1μF typ -12- 9.0 5.0 9 6	W mA max -11.5 80 50 240 -11.4	V mV mV mV v
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation	V_{IN} I_{OUT} s at Ta = 2 V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC}	$5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C}, -30\text{V} \le V_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le V_{\text{IN}} \le -14.5\text{V},$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$	5 t F,C _{OUT} min -12.5	o 500 = 1µF typ - 12 - 9.0 5.0 9 6	W mA max -11.5 80 50 240 -11.4 3.5	V mV mV mV v V
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation	$V_{ m IN}$ $I_{ m OUT}$ s at $Ta = 2$ $V_{ m OUT}$ $\Delta V_{ m oline}$ $\Delta V_{ m oload}$ $V_{ m OUT}$	$5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C}, -30\text{V} \le V_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le V_{\text{IN}} \le -14.5\text{V},$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $Tj = 25^{\circ}\text{C}$	5 t F,C _{OUT} min -12.5	0 500 = 1μF typ -12- 9.0 5.0 9 6	W mA max -11.5 80 50 240 -11.4	V mV mV mV v
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation	V_{IN} I_{OUT} s at Ta = 2 V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline}	$5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C}, -30\text{V} \le V_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le V_{\text{IN}} \le -14.5\text{V},$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $Tj = 25^{\circ}\text{C}$	5 t F,C _{OUT} min -12.5	0 500 = 1μF typ -12- 9.0 5.0 9 6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	V mV mV mV v V
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	V_{IN} I_{OUT} s at Ta = 2 V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\\ &\text{Tj} = 25^{\circ}\text{C}\\ &\text{Tj} = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}\\ &\text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V}\\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA}\\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA}\\ &-30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V},\\ &5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA}\\ &\text{Tj} = 25^{\circ}\text{C}\\ &-30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \end{split}$	5 t F,C _{OUT} min -12.5	0 500 = 1μF typ -12- 9.0 5.0 9 6	W mA max -11.5 80 50 240 -11.4 3.5	V mV mV mV v V
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\\ &\text{Tj} = 25^{\circ}\text{C}\\ &\text{Tj} = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}\\ &\text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V}\\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA}\\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA}\\ &-30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V},\\ &5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA}\\ &\text{Tj} = 25^{\circ}\text{C}\\ &-30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \end{split}$	5 t F,C _{OUT} min -12.5	0 500 = 1μF typ - 12 - 9.0 5.0 9 6 - 1.6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	W mV mV mV V W MA mA
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -19\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \end{split}$	5 t F,C _{OUT} min -12.5	0 500 = 1μF typ -12- 9.0 5.0 9 6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	wV mV mV mV V MA mA mA
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -19\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu \\ & \text{Tj} = 25^{\circ}\text{C} \\ & \text{Tj} = 25^{\circ}\text{C}, & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & \text{Tj} = 25^{\circ}\text{C}, & -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & \text{Tj} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ & \text{Tj} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & \text{Tj} = 25^{\circ}\text{C} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \\ & \text{f} = 120\text{Hz} \end{split} \qquad I_{\text{OUT}} = 100\text{mA} \end{split}$	5 to F,C _{OUT} min - 12.5	0 500 = 1μF typ -12 - 9.0 5.0 9 6 - 1.6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	www.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -19\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \end{split}$	5 to F,C _{OUT} min - 12.5	0 500 = 1μF typ - 12 - 9.0 5.0 9 6 - 1.6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	www.wv mV mV wv v mA mA mA
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$ $R_{\rm rej}$	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\\ T_{\text{J}} = 25^{\circ}\text{C}\\ T_{\text{J}} = 25^{\circ}\text{C}, -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}, -25\text{V} \leq V_{\text{IN}} \leq -15\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA}\\ T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V},\\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ T_{\text{J}} = 25^{\circ}\text{C}\\ -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V}\\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ 10\text{Hz} \leq f \leq 100\text{kHz}\\ f = 120\text{Hz}\\ -25\text{V} \leq V_{\text{IN}} \leq -15\text{V} \end{array} \qquad \begin{array}{ l l l l l l l l l l l l l l l l l l l$	5 to F,C _{OUT} min - 12.5	0 500 = 1μF typ -12 - 9.0 5.0 9 6 - 1.6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	V mV mV mV V mA mA mA
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Minimum Input-Output Voltage Drop	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\\ T_{\text{J}} = 25^{\circ}\text{C}\\ T_{\text{J}} = 25^{\circ}\text{C}, -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}, -25\text{V} \leq V_{\text{IN}} \leq -15\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA}\\ T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V},\\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ T_{\text{J}} = 25^{\circ}\text{C}\\ -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V}\\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ 10\text{Hz} \leq f \leq 100\text{kHz}\\ f = 120\text{Hz}\\ -25\text{V} \leq V_{\text{IN}} \leq -15\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}\\ T_{\text{J}} = 25^{\circ}\text{C}, I_{\text{OUT}} = 350\text{mA} \end{array} \right.$	5 to F,C _{OUT} min - 12.5	0 500 = 1μF typ -12 - 9.0 5.0 9 6 - 1.6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	www.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Minimum Input-Output Voltage Drop Short Current	$V_{\rm IN}$ $I_{\rm OUT}$ s at $Ta = 2$ $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$ $R_{\rm rej}$	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -19\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \\ & f = 120\text{Hz} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C} \end{split}$	5 to F,C _{OUT} min - 12.5	0 500 = 1μF typ - 12 - 9.0 5.0 9 6 - 1.6 300 72 1.1	W mA max -11.5 80 50 240 -11.4 3.5 1.0	V mV mV mV V mA mA mA dB dB
Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Line) Current Dissipation Variation (Load) Output Noise Voltage Ripple Rejection Minimum Input-Output Voltage Drop	V_{IN} I_{OUT} s at Ta = 2 V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO} R_{rej} V_{drop}	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\\ T_{\text{J}} = 25^{\circ}\text{C}\\ T_{\text{J}} = 25^{\circ}\text{C}, -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}, -25\text{V} \leq V_{\text{IN}} \leq -15\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA}\\ T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V},\\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ T_{\text{J}} = 25^{\circ}\text{C}\\ -30\text{V} \leq V_{\text{IN}} \leq -14.5\text{V}\\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA}\\ 10\text{Hz} \leq f \leq 100\text{kHz}\\ f = 120\text{Hz}\\ -25\text{V} \leq V_{\text{IN}} \leq -15\text{V}\\ T_{\text{J}} = 25^{\circ}\text{C}\\ T_{\text{J}} = 25^{\circ}\text{C}, I_{\text{OUT}} = 350\text{mA} \end{array} \right.$	5 to F,C _{OUT} min - 12.5	0 500 = 1μF typ -12 - 9.0 5.0 9 6 - 1.6	W mA max -11.5 80 50 240 -11.4 3.5 1.0	www.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.wv.





Specified Test Circuit (Common to L79M00T series)



Note) VIN max must be in the range specified above, with regulation, etc. considered.

- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
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