

No.2605B

L79M00T Series

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

Features

- Output voltage
- L79M05T: -5V
- L79M06T: -6V L79M08T: -8V
- L79M09T: -9V

unit

V

W

- L79M10T: -10VL79M12T: -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 Maximum Supply Voltage

- Allowable Power Dissipation Operating Temperature
- Storage Temperature
- V_{CC} max -5 to -12V output Pd max
- Topr
- -351.0 -30 to +80
 - °C -40 to +150°C

[L79M05T]

Recommended Operating Conditions at Ta = 25°C

- Input Voltage Output Current
- V_{IN} IOUT

Tstg

unit -20 to -7.5

min

5 to 500 mA

typ

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

Output Voltage
Line Regulation

 V_{OUT} ΔV_{oline} Tj = 25°C $T_j = 25^{\circ}C, -25V \le V_{IN} \le -7V$ Tj = 25°C, $-18V \le V_{IN} \le -8V$ -5.2 -5.0-4.87.0 50 3.0 30

Load Regulation

 ΔV_{oload}

Tj = 25°C,5mA $\leq I_{OUT} \leq 500$ mA Tj = 25°C,5mA $\leq I_{OUT} \leq 350$ mA

10 100 mV5 mVContinued on next page.

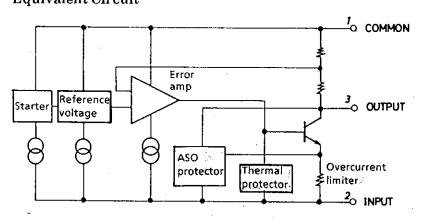
max

unit

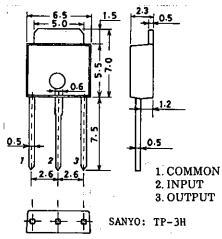
mV

mV

Equivalent Circuit



Package Dimensions 3110-S3HIC (unit: mm)



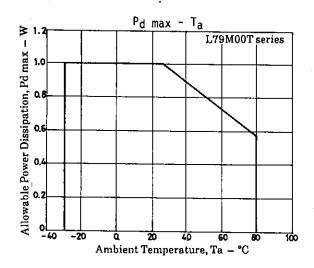
L79M00T Series

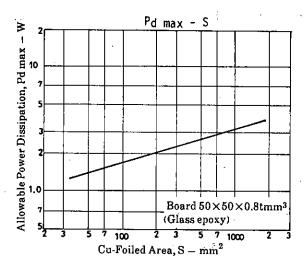
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Output Voltage	V_{OUT}	$-25V \le V_{\rm IN} \le -7V,$	min 5.25		max 4.75	unit V
0 (8)	T .	5mA≤I _{OUT} ≤350mA		1.0	0.5	
Current Dissipation	I _{CC}	Tj=25°C		1.0	$2.5 \\ 1.0$	mA mA
Current Dissipation Variation (Line)	ΔI_{CCline}	$-25V \le V_{\rm IN} \le -8V$			1.0	IIIA
Current Dissipation	ΔI_{CCload}	$5mA \le I_{OUT} \le 350mA$			0.4	mA
Variation (Load)	- CCload	01111 = 1001 = 0001111		•	0.4	1117.7
Output Noise Voltage	v_{NO}	$10\text{Hz} \leq f \leq 100\text{kHz}$		125		μV
Ripple Rejection	R _{rej}	$f = 120$ Hz $I_{OUT} = 100$ n	nA 50			dB
	,101	$-18V \le V_{IN} \le -8V$ $I_{OUT} = 300r$		65		dB
		$T_j = 25$ °C				
Minimum Input-Output	$V_{ m drop}$	$Tj = 25$ °C, $I_{OUT} = 350$ mA		1.1		V
Voltage Drop	_	·				
Short Current	los	$Tj = 25$ °C, $V_{IN} = -30$ V		130		mA
Peak Output Current	Iop			800		mA
[L79M06T]						
Recommended Operating	t Condition	o at Ta — 9190			unit	
Input Voltage	V _{IN}	s at 1a = 25 C	-21 to	_85	V	
Output Current	I _{OUT}			o 500	mA	
•	001				*****	
Operating Characteristic	s at $Ta = 25^{\circ}$	$C_1V_{IN} = -11V_1I_{OUT} = 350 \text{mA}, C_{IN} = 200$	μF,C _{OUT}	$=1\mu F$	•	
			min	typ	max	unit
Output Voltage	V_{OUT}	Tj = 25°C	-6.25			V
Line Regulation	$\Delta m V_{oline}$	$T_j = 25^{\circ}C, -25V \le V_{IN} \le -8V$		7.0	60	mV
Land Damilation	A 37	$Tj = 25^{\circ}C, -19V \le V_{IN} \le -9V$		3.0	40	mV
Load Regulation	ΔV_{oload}	$Tj = 25^{\circ}C,5mA \le I_{OUT} \le 500mA$		10	120	mV
Output Voltage	v_{our}	$T_j = 25^{\circ}C,5mA \le I_{OUT} \le 350mA$ - $25V \le V_{IN} \le -8V$,	-6.3	5	-5.7	${ m mV} \ { m V}$
output volunge	VOOT	$-26 \text{ V} = \text{VIN} = -6 \text{ V},$ $5 \text{mA} \le I_{\text{OUT}} \le 350 \text{mA}$	-0.3		— 5. r	٧
Current Dissipation	I_{CC}	Tj=25°C		1.0	2.5	mA
Current Dissipation	ΔI_{CCline}	$-25V \le V_{IN} \le -9V$		2.0	1.0	mA
Variation (Line)	0011110	***				
Current Dissipation	ΔI_{CCload}	$5mA \le I_{OUT} \le 350mA$			0.4	mA
Variation (Load)						
Output Noise Voltage	v_{NO}	10Hz≤f≤100kHz		150		μV
Ripple Rejection	R_{rej}	$f = 120 Hz \qquad I_{OUT} = 100 r$				dB
	•	$ -19V \le V_{IN} \le -9V$ $ I_{OUT} = 300r$	nA 50	65		dB
Minimum Immut Outsut	v	Tj=25°C				
Minimum Input-Output Voltage Drop	$V_{ m drop}$	$T_j = 25$ °C, $I_{OUT} = 350$ mA		1.1		V
Short Current	Ios	$T_{j} = 25^{\circ}C, V_{IN} = -30V$		130		A
Peak Output Current	Iop	1j=20 C, VIN=250V		800		mA mA
- our o aspas our one	-0p			000		шл
[L79M08T]		•				
Recommended Operating	g Condition	s at Ta=25°C			unit	
Input Voltage	V_{IN}	•	-23 to	-11	V	
Output Current	I_{OUT}		5 t	o 500	mΑ	

L79M00T Series

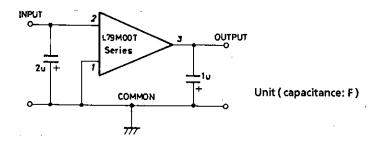
Operating Characteristic	s at $Ta = 2$	$5^{\circ}\text{C}, V_{\text{IN}} = -14\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\text{F}$	$,C_{\mathrm{OUT}}$	$=1\mu F$		
			min		max	unit
Output Voltage	V_{OUT}	Tj = 25°C	-8.3			V
Line Regulation	ΔV_{oline}	$T_{\rm i} = 25^{\circ}\text{C}, -25\text{V} \le V_{\rm iN} \le -10.5\text{V}$		8.0	80	mV
T 15 14	A T T	$T_{ij} = 25^{\circ}C, -21V \le V_{iN} \le -11V$		4.0	50	mV
Load Regulation	ΔV_{oload}	$Tj = 25^{\circ}C, 5mA \le I_{OUT} \le 500mA$		11	160	mV
	.,	$Tj = 25^{\circ}C, 5mA \le I_{OUT} \le 350mA$		6	# A	mV
Output Voltage	V _{OUT}	$-25V \le V_{IN} \le -10.5V,$	-8.4		-7.6	V
G 450 11	*	5mA≦I _{OUT} ≦350mA			٥.	
Current Dissipation	I_{CC}	Tj=25°C		1.0	2.5	mA
Current Dissipation	ΔI_{CCline}	$-25V \le V_{\rm IN} \le -10.5V$			1.0	mA
Variation (Line)	A T	5 A - I A			0.4	
Current Dissipation	ΔI_{CCload}	$5mA \le I_{OUT} \le 350mA$			0.4	mA
Variation (Load)	17	1011-<5< 1001-11-		800		77
Output Noise Voltage	V_{NO}	10Hz≤f≤100kHz (f=120Hz I _{OUT} =100mA	E٥	200		μV
Ripple Rejection	R_{rej}	1 001		G A		dB
		$-21.5V \le V_{IN} \le -11.5V I_{OUT} = 300 \text{mA}$ $T_1 = 25^{\circ}\text{C}$	50	64		dB
Minimum Input-Output	V.	$T_j = 25 \text{ C}$ $T_j = 25 \text{ C}, I_{OUT} = 350 \text{ mA}$		1.1		v
Voltage Drop	$V_{ m drop}$	13-25 C,10UT-350HIM		1.1		V
Short Current	I_{OS}	$T_{\rm j} = 25^{\circ} \text{C}, V_{\rm IN} = -30 \text{V}$		130		A
Peak Output Current	Iop	13-20 C, VIN30 V		800		mA mA
reak Output Ourrent	10р			000		mA
[L79M09T]						
Recommended Operating	y Conditio	ons at Ta = 25°C			unit	
			054	10		
indul voltage	VIN		— ZO IO	12	v	
Input Voltage Output Current	V _{IN} Iour		– 25 to 5 to		V mA	
Output Current	VIN I _{OUT}			o 500	mA	
Output Current	I_{OUT}		5 t	o 500	mA	
Output Current Operating Characteristic	I_{OUT}	$5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F}$	5 t	o 500	mA	unit
Output Current Operating Characteristic Output Voltage	$I_{ m OUT}$ s at $T_{ m a}$ = 2 $V_{ m OUT}$	$5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F}$ $\text{Tj} = 25^{\circ}\text{C}$	5 t	o 500 =1µF typ	mA max	unit V
Output Current Operating Characteristic	I _{OUT} s at Ta=2	$5^{\circ}\text{C}, V_{\text{IN}} = -16\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\text{F}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -11.5\text{V}$	5 to COUT min	o 500 =1µF typ	mA max	
Output Current Operating Characteristic Output Voltage Line Regulation	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline}	$5^{\circ}\text{C}, V_{\text{IN}} = -16\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\text{F}$ $T_{j} = 25^{\circ}\text{C}$ $T_{j} = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -11.5\text{V}$ $T_{j} = 25^{\circ}\text{C}, -20\text{V} \le V_{\text{IN}} \le -12\text{V}$	5 to COUT min	o 500 = 1µF typ - 9.0 8.0 4.0	mA max -8.6	V
Output Current Operating Characteristic Output Voltage	$I_{ m OUT}$ s at $T_{ m a}$ = 2 $V_{ m OUT}$	$5^{\circ}\text{C}, V_{\text{IN}} = -16\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\mu\text{F}$ $T_{\text{J}} = 25^{\circ}\text{C}$ $T_{\text{J}} = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -11.5\text{V}$ $T_{\text{J}} = 25^{\circ}\text{C}, -20\text{V} \le V_{\text{IN}} \le -12\text{V}$ $T_{\text{J}} = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 500\text{mA}$	5 to COUT min	o 500 = 1µF typ - 9.0 8.0 4.0 12	mA max -8.6 80	$\begin{matrix} V \\ mV \end{matrix}$
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload}	$\begin{array}{l} 5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ \text{Tj} = 25^{\circ}\text{C} \\ \text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ \text{Tj} = 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ \text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ \text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \end{array}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0	mA max -8.6 80 50 200	V mV mV mV
Output Current Operating Characteristic Output Voltage Line Regulation	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ &\text{Tj} = 25^{\circ}\text{C} \\ &\text{Tj} = 25^{\circ}\text{C,} - 25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ &\text{Tj} = 25^{\circ}\text{C,} - 20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ &-25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \end{split}$	5 to COUT min	o 500 = 1µF typ - 9.0 8.0 4.0 12	mA max -8.6 80 50	V mV mV
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage	I_{OUT} is at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT}	$\begin{array}{l} 5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj = 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \end{array}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200	V mV mV mV V
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ &\text{Tj} = 25^{\circ}\text{C} \\ &\text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ &\text{Tj} = 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ &-25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ &5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ &\text{Tj} = 25^{\circ}\text{C} \end{split}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12	mA max -8.6 80 50 200 -8.5 2.5	V mV mV mV V
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation	I_{OUT} is at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT}	$\begin{array}{l} 5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj = 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \end{array}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200	V mV mV mV V
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line)	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline}	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -16\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu\text{F} \\ & \text{Tj} = 25^{\circ}\text{C} \\ & \text{Tj} = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ & \text{Tj} = 25^{\circ}\text{C}, -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ & \text{Tj} = 25^{\circ}\text{C}, & 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ & \text{Tj} = 25^{\circ}\text{C}, & 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V}, \\ & 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ & \text{Tj} = 25^{\circ}\text{C} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \end{split}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ &\text{Tj} = 25^{\circ}\text{C} \\ &\text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ &\text{Tj} = 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ &\text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ &-25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ &5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ &\text{Tj} = 25^{\circ}\text{C} \end{split}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200 -8.5 2.5	V mV mV mV V
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj &= 25^{\circ}\text{C} \\ Tj &= 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj &= 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ Tj &= 25^{\circ}\text{C} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ \end{bmatrix}$	5 to COUT min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA
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	I_{OUT} $s at Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj &= 25^{\circ}\text{C} \\ Tj &= 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj &= 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ Tj &= 25^{\circ}\text{C} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \end{split}$	5 to C,C _{OUT} min -9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7 1.0	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV v V mA mA
Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line) Current Dissipation Variation (Load)	I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload}	$\begin{array}{lll} 5^{\circ}\text{C,V}_{\text{IN}} = -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj = 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj = 25^{\circ}\text{C,5mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C,5mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} & I_{\text{OUT}} = 100\text{mA} \end{array}$	5 to COUT min - 9.4	0 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200 -8.5 2.5 1.0	W mV mV mV V mV wA mA mA
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	I_{OUT} $s at Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ T_{\text{J}} &= 25^{\circ}\text{C} \\ T_{\text{J}} &= 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ T_{\text{J}} &= 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ T_{\text{J}} &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ T_{\text{J}} &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} &\leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} &\leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ T_{\text{J}} &= 25^{\circ}\text{C} \\ -25\text{V} &\leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} &\leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} &\leq f \leq 100\text{kHz} \\ f &= 120\text{Hz} \\ -22.5\text{V} &\leq \text{V}_{\text{IN}} \leq -12.5\text{V} \\ \text{I}_{\text{OUT}} = 300\text{mA} \\ \end{split}$	5 to COUT min - 9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7 1.0	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV v V mA mA
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	I_{OUT} is at Ta = 2 V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO} R_{rej}	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -16\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu\text{F} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & T_{\text{J}} = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V}, \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \\ & -22.5\text{V} \leq \text{V}_{\text{IN}} \leq -12.5\text{V} & I_{\text{OUT}} = 100\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \end{split}$	5 to COUT min - 9.4	o 500 = 1µF typ - 9.0 8.0 4.0 12 7 1.0	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA
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	I_{OUT} $s at Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ T_{\text{J}} &= 25^{\circ}\text{C} \\ T_{\text{J}} &= 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ T_{\text{J}} &= 25^{\circ}\text{C,} -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ T_{\text{J}} &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ T_{\text{J}} &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} &\leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} &\leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ T_{\text{J}} &= 25^{\circ}\text{C} \\ -25\text{V} &\leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} &\leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} &\leq f \leq 100\text{kHz} \\ f &= 120\text{Hz} \\ -22.5\text{V} &\leq \text{V}_{\text{IN}} \leq -12.5\text{V} \\ \text{I}_{\text{OUT}} = 300\text{mA} \\ \end{split}$	5 to COUT min - 9.4	0 500 = 1µF typ - 9.0 8.0 4.0 12 7	mA max -8.6 80 50 200 -8.5 2.5 1.0	W mV mV mV V mV wA mA mA
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	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}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj &= 25^{\circ}\text{C} \\ Tj &= 25^{\circ}\text{C,} - 25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj &= 25^{\circ}\text{C,} - 20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ Tj &= 25^{\circ}\text{C} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq \text{f} \leq 100\text{kHz} \\ f &= 120\text{Hz} \\ -22.5\text{V} \leq \text{V}_{\text{IN}} \leq -12.5\text{V} \begin{vmatrix} \text{I}_{\text{OUT}} = 100\text{mA} \\ \text{I}_{\text{OUT}} = 300\text{mA} \end{vmatrix} \\ Tj &= 25^{\circ}\text{C} \\ Tj &= 25^{\circ}\text{C,I}_{\text{OUT}} = 350\text{mA} \end{split}$	5 to COUT min - 9.4	0 500 = 1µF typ - 9.0 8.0 4.0 12 7 1.0	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mV dB dB
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	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} I_{OS}	$\begin{split} 5^{\circ}\text{C}, & V_{\text{IN}} = -16\text{V}, & I_{\text{OUT}} = 350\text{mA}, & C_{\text{IN}} = 2\mu\text{F} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & T_{\text{J}} = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, -20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C}, & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V}, \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \\ & -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ & 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \\ & 10\text{Hz} \leq f \leq 100\text{kHz} \\ & -22.5\text{V} \leq \text{V}_{\text{IN}} \leq -12.5\text{V} & I_{\text{OUT}} = 100\text{mA} \\ & T_{\text{J}} = 25^{\circ}\text{C} \end{split}$	5 to COUT min - 9.4	0 500 = 1µF typ - 9.0 8.0 4.0 12 7 1.0 225 63 1.1	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA MA V dB dB
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	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}	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -16\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\mu\text{F} \\ Tj &= 25^{\circ}\text{C} \\ Tj &= 25^{\circ}\text{C,} - 25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ Tj &= 25^{\circ}\text{C,} - 20\text{V} \leq \text{V}_{\text{IN}} \leq -12\text{V} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ Tj &= 25^{\circ}\text{C} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -11.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq \text{f} \leq 100\text{kHz} \\ f &= 120\text{Hz} \\ -22.5\text{V} \leq \text{V}_{\text{IN}} \leq -12.5\text{V} \begin{vmatrix} \text{I}_{\text{OUT}} = 100\text{mA} \\ \text{I}_{\text{OUT}} = 300\text{mA} \end{vmatrix} \\ Tj &= 25^{\circ}\text{C} \\ Tj &= 25^{\circ}\text{C,I}_{\text{OUT}} = 350\text{mA} \end{split}$	5 to COUT min - 9.4	0 500 = 1µF typ - 9.0 8.0 4.0 12 7 1.0	mA max -8.6 80 50 200 -8.5 2.5 1.0	V mV mV mV V mA mA mA dB dB

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ı	Recommended Operatin	-	ons at Ta = 25°C	a=.		unit	
	Input Voltage	V_{IN}		– 25 to		V	
	Output Current	I_{OUT}	•	51	to 500	mA	
(Operating Characteristic	cs at Ta=2	$25^{\circ}\text{C}, V_{\text{IN}} = -17V, I_{\text{OUT}} = 350 \text{mA}, C_{\text{IN}} = 250 \text{mA}$	μF,C _{OՄΊ}	_r =1µF	1	•
				min	typ	max	unit
	Output Voltage	$ m v_{OUT}$	Tj = 25°C	-10.4	-10	-9.6	V
	Line Regulation	$\Delta V_{ m oline}$	$Tj = 25^{\circ}C, -25V \le V_{IN} \le -12.5V$		9.0	80	mV
			$T_j = 25$ °C, $-22V \le V_{IN} \le -13V$		5.0	50	mV
	Load Regulation	ΔV_{oload}	$Tj = 25$ °C, $5mA \le I_{OUT} \le 500mA$		12	200	mV
			$T_j = 25$ °C,5mA $\leq I_{OUT} \leq 350$ mA		. 7		mV
	Output Voltage	$v_{ m out}$	$-25V \le V_{IN} \le -12.5V$	-10.5		-9.5	V
			5mA≤I _{OUT} ≤350mA				
	Current Dissipation	I_{CC}	$T_j = 25$ °C		1.0	2.5	mA
	Current Dissipation	Δl_{CCline}	$-25V \le V_{IN} \le -12.5V$		_,,	1.0	mΑ
	Variation (Line)	001110	**1			~,0	
	Current Dissipation	ΔI_{CCload}	5mA≤I _{OUT} ≤350mA			0.4	mΑ
	Variation (Load)	COIDAG				0. 1	1117.1
	Output Noise Voltage	V_{NO}	10Hz≤f≤100kHz		250		μV
	Ripple Rejection	R_{rei}	$f=120Hz$ $ I_{OUT}=100m$	A 50	200		dB
		(e)	$ -23.5V \le V_{\rm IN} \le -13.5V$ $ I_{\rm OUT} = 300 \rm m$		63		dB
			$T_j = 25^{\circ}C$	11 00	03		ub
	Minimum Input-Output	V_{drop}	$T_j = 25^{\circ}C, I_{OUT} = 350 \text{mA}$		1.1		v
	Voltage Drop	· arop	1, -20 O, 1001 - 000 mA		1.1		V
	Short Current	I_{OS}	$T_j = 25$ °C, $V_{IN} = -30$ V		120		
	Peak Output Current	Iop	1J-20 C, $VIN=-30$ V		130		mΑ
	r can Guopat Garrent	юр			800		mA
	L79M12T]						
	Recommended Operating	g Conditio	ons at Ta = 25°C			unit	
	Recommended Operating Input Voltage	g Conditio V _{IN}	ons at Ta = 25°C	– 25 to	-15	unit V	
	Recommended Operating		ons at Ta = 25°C	– 25 to 5 t	15 o 500	V	
F	Recommended Operating Input Voltage Output Current	V_{IN} I_{OUT}		5 t	o 500		
F	Recommended Operating Input Voltage Output Current	V_{IN} I_{OUT}		5 t	o 500	V	
F	Recommended Operating Input Voltage Output Current Operating Characteristic	V_{IN} I_{OUT}	ons at Ta = 25°C 5°C,V _{IN} = -19V,I _{OUT} = 350mA,C _{IN} = 2 ₁	5 t	o 500 =1μF	V mA	unit
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage	V_{IN} I_{OUT} s at Ta = 2 V_{OUT}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $\text{Tj} = 25^{\circ}\text{C}$	5 t ıF,C _{OUT}	o 500 =1µF typ	V mA max	unit V
F	Recommended Operating Input Voltage Output Current Operating Characteristic	V_{IN} I_{OUT} s at $Ta = 2$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $\text{Tj} = 25^{\circ}\text{C}$	5 t ıF,C _{OUT} min	o 500 = 1µF typ 12 -	V mA max -11.5	V
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation	V_{IN} I_{OUT} es at $Ta = 2$ V_{OUT} ΔV_{oline}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$	5 t ıF,C _{OUT} min	o 500 = 1µF typ - 12 - 9.0	V mA max -11.5 80	V mV
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation	V_{IN} I_{OUT} s at Ta = 2 V_{OUT}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V}$ $Tj = 25^{\circ}\text{C,} -80\text{M} \leq \text{I}_{\text{OUT}} \leq 500\text{mA}$	5 t ıF,C _{OUT} min	o 500 = 1μF typ - 12 - 9.0 5.0	V mA max -11.5 80 50	V mV mV
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation	V_{IN} I_{OUT} es at $Ta = 2$ V_{OUT} ΔV_{oline}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V}$ $Tj = 25^{\circ}\text{C,} -80\text{M} \leq \text{I}_{\text{OUT}} \leq 500\text{mA}$	5 t ıF,C _{OUT} min	o 500 = 1µF typ - 12 - 9.0	V mA max -11.5 80	V mV mV
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation	V_{IN} I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA}$	5 t uF,C _{OUT} min –12.5	0 500 = 1μF typ - 12 - 9.0 5.0 9 6	W mA max -11.5 80 50 240	W mV mV mV
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation	V_{IN} I_{OUT} es at $Ta = 2$ V_{OUT} ΔV_{oline}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V,}$	5 t ıF,C _{OUT} min	0 500 = 1μF typ - 12 - 9.0 5.0 9 6	V mA max -11.5 80 50	V mV mV
F	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} V_{OUT}	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA}$ $Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA}$	5 t uF,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
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage	$V_{\rm IN}$ $I_{\rm OUT}$ s at Ta = 2. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V,}$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $Tj = 25^{\circ}\text{C}$	5 t uF,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
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation	V_{IN} I_{OUT} s at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT}	$5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\text{p}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C}, -30\text{V} \le V_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C}, -25\text{V} \le V_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C}, 5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le V_{\text{IN}} \le -14.5\text{V},$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$	5 t uF,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
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation	$V_{\rm IN}$ $I_{\rm OUT}$ s at Ta = 2. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$	$\begin{array}{l} 5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{p} \\ \text{Tj} = 25^{\circ}\text{C} \\ \text{Tj} = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ \text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ \text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ \text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ \text{Tj} = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \end{array}$	5 t uF,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 mA
F	Recommended Operating Input Voltage Output Current Operating Characteristic Output Voltage Line Regulation Load Regulation Output Voltage Current Dissipation Current Dissipation Variation (Line)	$V_{\rm IN}$ $I_{\rm OUT}$ s at Ta = 2. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{L}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V,}$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $Tj = 25^{\circ}\text{C}$	5 t uF,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
F	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. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$	$\begin{split} 5^{\circ}\text{C,V}_{\text{IN}} &= -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{p} \\ \text{Tj} &= 25^{\circ}\text{C} \\ \text{Tj} &= 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ \text{Tj} &= 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ \text{Tj} &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ \text{Tj} &= 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ \text{Tj} &= 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ \end{split}$	5 t uF,C _{OUT} min –12.5	o 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 V mA mA
F	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. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$	$\begin{array}{l} 5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{p} \\ \text{Tj} = 25^{\circ}\text{C} \\ \text{Tj} = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ \text{Tj} = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ \text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ \text{Tj} = 25^{\circ}\text{C,5mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ \text{Tj} = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq \text{f} \leq 100\text{kHz} \\ \end{array}$	5 tuF,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 mA mA mA
F	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. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$	$5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{P}$ $Tj = 25^{\circ}\text{C}$ $Tj = 25^{\circ}\text{C,} -30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $Tj = 25^{\circ}\text{C,} -25\text{V} \le \text{V}_{\text{IN}} \le -15\text{V}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 500\text{mA}$ $Tj = 25^{\circ}\text{C,5mA} \le I_{\text{OUT}} \le 350\text{mA}$ $-30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V,}$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $Tj = 25^{\circ}\text{C}$ $-30\text{V} \le \text{V}_{\text{IN}} \le -14.5\text{V}$ $5\text{mA} \le I_{\text{OUT}} \le 350\text{mA}$ $10\text{Hz} \le f \le 100\text{kHz}$ $10\text{Hz} \le f \le 100\text{kHz}$ $10\text{Hz} \le f \le 100\text{kHz}$	5 t IF,C _{OUT} min -12.5 -12.6	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 V mA mA mA
F	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. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$	$\begin{array}{lll} 5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{p} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & \text{I}_{\text{OUT}} = 300\text{mA} \\ \end{array}$	5 t IF,C _{OUT} min -12.5 -12.6	o 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 V mA mA mA
F	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	$V_{\rm IN}$ $I_{\rm OUT}$ s at Ta = 2. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$ $R_{\rm rej}$	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\text{p} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C}, -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ Tj = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C} \\ \end{array} \qquad \begin{array}{c c} I_{\text{OUT}} = 100\text{mJ} \\ I_{\text{OUT}} = 300\text{mJ} \\ \end{array}$	5 t IF,C _{OUT} min -12.5 -12.6	o 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.
F	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. $V_{\rm OUT}$ $\Delta V_{\rm oline}$ $\Delta V_{\rm oload}$ $V_{\rm OUT}$ $I_{\rm CC}$ $\Delta I_{\rm CCline}$ $\Delta I_{\rm CCload}$ $V_{\rm NO}$	$\begin{array}{lll} 5^{\circ}\text{C,V}_{\text{IN}} = -19\text{V,I}_{\text{OUT}} = 350\text{mA,C}_{\text{IN}} = 2\text{p} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C,} -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ Tj = 25^{\circ}\text{C,} -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C,} 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V,} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq \text{I}_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ & \text{I}_{\text{OUT}} = 300\text{mA} \\ \end{array}$	5 t IF,C _{OUT} min -12.5 -12.6	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 V mA mA mA
F	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	V_{IN} I_{OUT} as at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO} R_{rej} V_{drop}	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\text{p} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C}, -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ Tj = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C}, I_{\text{OUT}} = 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C}, I_{\text{OUT}} = 350\text{mA} \end{array}$	5 t IF,C _{OUT} min -12.5 -12.6	o 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 V mA mA mA dB dB
F	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_{IN} I_{OUT} as at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO} R_{rej} V_{drop} I_{OS}	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\text{p} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C}, -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ Tj = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C} \\ \end{array} \qquad \begin{array}{c c} I_{\text{OUT}} = 100\text{mJ} \\ I_{\text{OUT}} = 300\text{mJ} \\ \end{array}$	5 t IF,C _{OUT} min -12.5 -12.6	0 500 = 1μF typ -12- 9.0 5.0 9 6 - 1.6 300 72 1.1 130	W mA max -11.5 80 50 240 -11.4 3.5 1.0	W mV mV mV V W mA mA MA MA MB dB
F	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	V_{IN} I_{OUT} as at $Ta = 2$ V_{OUT} ΔV_{oline} ΔV_{oload} V_{OUT} I_{CC} ΔI_{CCline} ΔI_{CCload} V_{NO} R_{rej} V_{drop}	$\begin{array}{lll} 5^{\circ}\text{C}, V_{\text{IN}} = -19\text{V}, I_{\text{OUT}} = 350\text{mA}, C_{\text{IN}} = 2\text{p} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C}, -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ Tj = 25^{\circ}\text{C}, -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 500\text{mA} \\ Tj = 25^{\circ}\text{C}, 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V}, \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ -30\text{V} \leq \text{V}_{\text{IN}} \leq -14.5\text{V} \\ 5\text{mA} \leq I_{\text{OUT}} \leq 350\text{mA} \\ 10\text{Hz} \leq f \leq 100\text{kHz} \\ f = 120\text{Hz} \\ -25\text{V} \leq \text{V}_{\text{IN}} \leq -15\text{V} \\ Tj = 25^{\circ}\text{C}, I_{\text{OUT}} = 350\text{mA} \\ Tj = 25^{\circ}\text{C} \\ Tj = 25^{\circ}\text{C}, I_{\text{OUT}} = 350\text{mA} \end{array}$	5 t IF,C _{OUT} min -12.5 -12.6	o 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 V mA mA mA dB dB





Specified Test Circuit (Common to L79M00T series)



Note) $V_{\rm IN}$ max must be in the range specified above, with regulation, etc. considered.

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