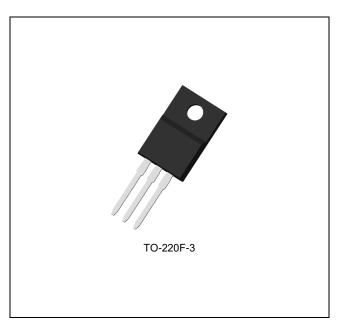
#### **FEATURES**

- · Output Current Up to 1.5A
- · Internal Thermal Overload Protection
- · Internal Short-Circuit Current Limiting
- Output Transistor Safe-Area Compensation
- Output Voltage of -5V, -6V, -8V, -9V, -12V, -15V, -18V, -20V, and -24V

#### **DESCRIPTION**

This series of fixed-negative voltage monolithic integrated circuit voltage regulator is designed to complement LM79xxTP series in a wide range of applications. These applications include on-card regulation for elimination of noise and distribution problems associated with single-point regulation.

Each of these regulators can deliver up to 1.5A of output current. The internal limiting and thermal shutdown features of these regulators make them essentially immune to overload. In addition to use as fixed-voltage regulators, these devices can be used with external components to obtain adjustable output voltages and current and also as the power pass element in precision regulators.



#### **ORDERING INFORMATION**

Device	Package
LM79xxTP	TO-220F-3L

xx: Output Voltage

#### ABSOLUTE MAXIMUM RATINGS (Note 1)

CHARAC	SYMBOL	MIN	MAX	UNIT	
Input Voltage All (except V <sub>OUT</sub> = −24V)		V <sub>IN</sub>	-	-35	V
	V <sub>OUT</sub> = −24V		-	-40	
Maximum Junction Temperature		TJ	0	150	°C
Storage Temperature		T <sub>STG</sub>	-65	150	°C

Note 1. Stresses beyond those listed under *Absolute Maximum Ratings* may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Conditions* is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

### RECOMMENDED OPERATING RATINGS (Note 2)

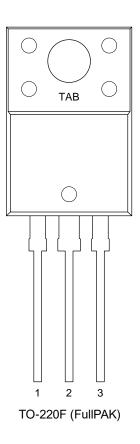
CHARAC	TERISTIC	SYMBOL	MIN	MAX	UNIT
Input Voltage	V <sub>OUT</sub> = −5.0V	V <sub>IN</sub>	-7.0	-25	V
	V <sub>OUT</sub> = -6.0V		-8.0	-25	
	V <sub>OUT</sub> = -8.0V		-10.5	-25	
	V <sub>OUT</sub> = -9.0V		-11.5	-25	
	V <sub>OUT</sub> = −12V		-14.5	-30	
	V <sub>OUT</sub> = −15V		-17.5	-30	
	V <sub>OUT</sub> = −18V		-21	-33	
	V <sub>OUT</sub> = -20V		-23	-34	
	V <sub>OUT</sub> = −24V		-27	-38	
Output Current		I <sub>оит</sub>	0	1.5	Α
Operating Junction Tempera	ature Range	TJ	0	125	°C

Note 2. The device is not guaranteed to function outside its operating ratings.

#### **ORDERING INFORMATION**

VOUT	Package	Order No.	Description	Supplied As	Status
-5.0V	TO-220F-3L	LM7905TP	1.5A, FullPAK	Tube	Contact us
-6.0V	TO-220F-3L	LM7906TP	1.5A, FullPAK	Tube	Contact us
-8.0V	TO-220F-3L	LM7908TP	1.5A, FullPAK	Tube	Contact us
-9.0V	TO-220F-3L	LM7909TP	1.5A, FullPAK	Tube	Contact us
-12V	TO-220F-3L	LM7912TP	1.5A, FullPAK	Tube	Contact us
-15V	TO-220F-3L	LM7915TP	1.5A, FullPAK	Tube	Contact us
-18V	TO-220F-3L	LM7918TP	1.5A, FullPAK	Tube	Active
-20V	TO-220F-3L	LM7920TP	1.5A, FullPAK	Tube	Contact us
-24V	TO-220F-3L	LM7924TP	1.5A, FullPAK	Tube	Active

## **PIN CONFIGURATION**

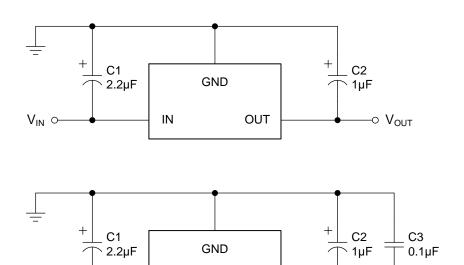


## **PIN DESCRIPTION**

Pin No.	Pin Name	Pin Function
1	GND	Ground
2	IN	Input Voltage
3	OUT	Output Voltage
TAB	TAB	No Connection. Electrically Isolated.

⊸ V<sub>оит</sub>

### **TYPICAL APPLICATION CIRCUITS**



OUT

\* C1 required for stability. Value given may be increased.

IN

- \*\* C2 required for stability. Value given may be increased.
- \*\*\* C3 considered improving the transient response.

 $V_{IN} \circ$ 

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -10V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-4.80	-5.0	-5.20	V
		$-20V \le V_{IN} \le -7.0V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-4.75	-5.0	-5.25	
Line Regulation	$\Delta V_{LINE}$	-25V ≤ V <sub>IN</sub> ≤ -7.0V	-	12.5	50	mV
		-12V ≤ V <sub>IN</sub> ≤ -8.0V	-	4.0	15	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	15	100	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	5.0	50	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-0.4	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	125	-	μV
Ripple Rejection	P <sub>RR</sub>	$-18V \le V_{IN} \le -8.0V$ , f = 120Hz	54	60	-	dB
Dropout Voltage	$V_D$	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	Ι <sub>Β</sub>		-	1.5	2.0	mA
Bias Current Change	$\Delta l_{B}$	-25V ≤ V <sub>IN</sub> ≤ -7.0V	-	0.15	0.5	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.08	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -11V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-5.75	-6.0	-6.25	V
		$-21V \le V_{IN} \le -8.0V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-5.70	-6.0	-6.30	
Line Regulation	$\Delta V_{LINE}$	$-25V \le V_{IN} \le -8.0V$	-	12.5	120	mV
		$-13V \le V_{IN} \le -9.0V$	-	4.0	60	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	15	120	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	5.0	60	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-0.4	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	150	-	μV
Ripple Rejection	P <sub>RR</sub>	-19V ≤ V <sub>IN</sub> ≤ -9.0V, f = 120Hz	54	60	-	dB
Dropout Voltage	V <sub>D</sub>	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	I <sub>B</sub>		-	1.5	2.0	mA
Bias Current Change	$\Delta l_{B}$	-25V ≤ V <sub>IN</sub> ≤ -8.0V	-	0.15	1.3	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.08	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -14V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-7.70	-8.0	-8.30	V
		$-23V \le V_{IN} \le -10.5V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-7.60	-8.0	-8.40	
Line Regulation	$\Delta V_{LINE}$	-25V ≤ V <sub>IN</sub> ≤ -10.5V	-	12.5	160	mV
		-17V ≤ V <sub>IN</sub> ≤ -11V	-	4.0	80	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	15	160	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	5.0	80	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-0.6	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	200	-	μV
Ripple Rejection	$P_{RR}$	-21.5V ≤ V <sub>IN</sub> ≤ -11.5V, f = 120Hz	54	60	-	dB
Dropout Voltage	$V_D$	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	Ι <sub>Β</sub>		-	1.5	2.0	mA
Bias Current Change	$\Delta l_{B}$	-25V ≤ V <sub>IN</sub> ≤ -10.5V	-	0.15	1.0	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.08	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -15V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-8.64	-9.0	-9.36	V
		$-25V \le V_{IN} \le -11.5V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-8.55	-9.0	-9.45	
Line Regulation	$\Delta V_{LINE}$	-25V ≤ V <sub>IN</sub> ≤ -11.5V	-	12.5	180	mV
		-22V ≤ V <sub>IN</sub> ≤ -14.5V	-	4.0	90	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	15	180	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	5.0	90	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-1.0	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	225	-	μV
Ripple Rejection	$P_{RR}$	-24V ≤ V <sub>IN</sub> ≤ -12.5V, f = 120Hz	54	60	-	dB
Dropout Voltage	$V_D$	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	Ι <sub>Β</sub>		-	1.5	2.0	mA
Bias Current Change	$\Delta l_{B}$	-25V ≤ V <sub>IN</sub> ≤ -11.5V	-	0.15	1.0	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.08	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -19V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-11.5	-12	-12.5	V
		$-27V \le V_{IN} \le -14.5V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-11.4	-12	-12.6	
Line Regulation	$\Delta V_{LINE}$	-30V ≤ V <sub>IN</sub> ≤ -14.5V	-	5.0	80	mV
		-22V ≤ V <sub>IN</sub> ≤ -16V	-	3.0	30	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	15	200	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	5.0	75	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-0.8	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	300	-	μV
Ripple Rejection	P <sub>RR</sub>	-25V ≤ V <sub>IN</sub> ≤ -15V, f = 120Hz	54	60	-	dB
Dropout Voltage	V <sub>D</sub>	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	Ι <sub>Β</sub>		-	2.0	3.0	mA
Bias Current Change	$\Delta l_{B}$	-30V ≤ V <sub>IN</sub> ≤ -14.5V	-	0.04	0.5	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.06	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -23V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-14.4	-15	-15.6	V
		$-30V \le V_{IN} \le -17.5V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-14.25	-15	-15.75	
Line Regulation	$\Delta V_{LINE}$	-30V ≤ V <sub>IN</sub> ≤ -17.5V	-	5.0	100	mV
		-26V ≤ V <sub>IN</sub> ≤ -20V	-	3.0	50	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	15	200	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	5.0	75	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-1.0	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	375	-	μV
Ripple Rejection	P <sub>RR</sub>	-28.5V ≤ V <sub>IN</sub> ≤ -18.5V, f = 120Hz	54	60	-	dB
Dropout Voltage	$V_D$	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	Ι <sub>Β</sub>		-	2.0	3.0	mA
Bias Current Change	$\Delta l_{B}$	-30V ≤ V <sub>IN</sub> ≤ -17.5V	-	0.04	0.5	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.06	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -27V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-17.3	-18	-18.7	V
		$-33V \le V_{IN} \le -21V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-17.1	-18	-18.9	
Line Regulation	$\Delta V_{LINE}$	-33V ≤ V <sub>IN</sub> ≤ -21V	-	5.0	360	mV
		-30V ≤ V <sub>IN</sub> ≤ -24V	-	3.0	180	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	30	360	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	10	180	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-1.0	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	450	1	μV
Ripple Rejection	P <sub>RR</sub>	-32V ≤ V <sub>IN</sub> ≤ -22V, f = 120Hz	54	60	-	dB
Dropout Voltage	$V_D$	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	I <sub>B</sub>		-	2.0	3.0	mA
Bias Current Change	$\Delta l_{B}$	-33V ≤ V <sub>IN</sub> ≤ -21V	-	0.04	1.0	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.06	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -31V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-19.2	-20	-20.8	V
		$-34V \le V_{IN} \le -23V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-19.0	-20	-21.0	
Line Regulation	$\Delta V_{LINE}$	$-34V \le V_{IN} \le -23V$	•	5.0	400	mV
		-31V ≤ V <sub>IN</sub> ≤ -26V	-	3.0	200	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	50	400	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	15	120	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-1.0	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	500	-	μV
Ripple Rejection	P <sub>RR</sub>	-33V ≤ V <sub>IN</sub> ≤ -24V, f = 120Hz	54	60	-	dB
Dropout Voltage	V <sub>D</sub>	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	I <sub>B</sub>		-	2.0	3.0	mA
Bias Current Change	$\Delta l_{B}$	$-34V \le V_{IN} \le -23V$	-	0.04	1.0	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.06	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

Specifications with standard type face are for  $T_J$  = 25°C, and those with **boldface type** apply over full operating temperature range In the *Recommended Operating Ratings*. Conditions are  $V_{IN}$  = -33V,  $I_{OUT}$  = 500mA,  $C_{IN}$  = 2.2 $\mu$ F,  $C_{OUT}$  = 1 $\mu$ F, unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS (Note 3)	MIN	TYP	MAX	UNIT
Output Voltage (Note 4)	V <sub>OUT</sub>		-23.0	-24	-25.0	V
		$-38V \le V_{IN} \le -27V$ , 5.0mA $\le I_{OUT} \le 1.0A$ , $P_D \le 15W$	-22.8	-24	-25.2	
Line Regulation	$\Delta V_{LINE}$	-38V ≤ V <sub>IN</sub> ≤ -27V	-	5.0	480	mV
		-36V ≤ V <sub>IN</sub> ≤ -30V	-	3.0	240	
Load Regulation	$\Delta V_{LOAD}$	5.0mA ≤ I <sub>OUT</sub> ≤ 1.5A	-	85	480	mV
		250mA ≤ I <sub>OUT</sub> ≤ 750mA	-	25	240	
Temperature Coefficient of Output Voltage	$\Delta V_{OUT}/\Delta T$	I <sub>OUT</sub> = 5.0mA	-	-1.0	-	mV/°C
Output Noise Voltage	V <sub>n</sub>	10Hz ≤ f ≤ 100kHz	-	600	1	μV
Ripple Rejection	P <sub>RR</sub>	-38V ≤ V <sub>IN</sub> ≤ -28V, f = 120Hz	54	60	-	dB
Dropout Voltage	$V_D$	I <sub>OUT</sub> = 1.0A	-	1.6	-	V
Bias Current	I <sub>B</sub>		-	2.0	3.0	mA
Bias Current Change	$\Delta l_{B}$	-38V ≤ V <sub>IN</sub> ≤ -27V	-	0.04	1.0	mA
		5.0mA ≤ I <sub>OUT</sub> ≤ 1.0A	-	0.06	0.5	
Peak Output Current	I <sub>OMAX</sub>		-	2.1	-	Α

Note 3. Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately.

Note 4. This specification applies only for DC power dissipation permitted by absolute maximum ratings.

# **3-Terminal 1.5A Negative Voltage Regulator**

LM79xxTP

## **TYPICAL OPERATING CHARACTERISTICS**

T.B.D.

LM79xxTP

## **APPLICATION INFORMATION**

T.B.D.

# 3-Terminal 1.5A Negative Voltage Regulator

LM79xxTP

## **REVISION NOTICE**

The description in this datasheet is subject to change without any notice to describe its electrical characteristics properly.