

## 3-Terminal 1.0A Negative voltage Regulators

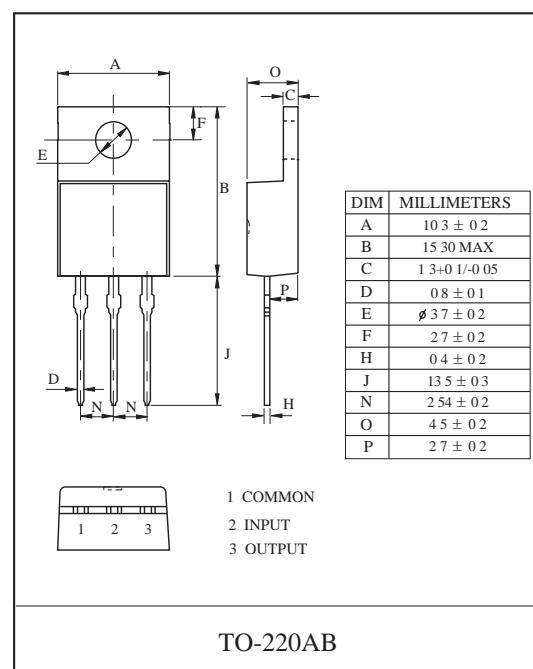
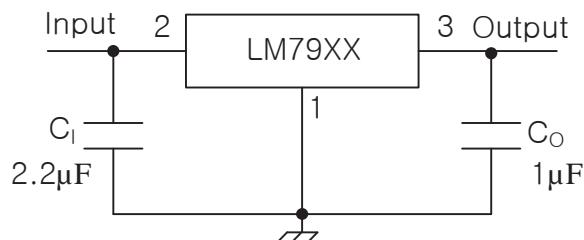
## Features

- . No external components required
- . Internal Thermal shutdown and SOA protection
- . Output Voltages ( -5V, -6V, -8V, -9V, -10V, -12V, -15V, -18V, -24V)
- . Output voltage offered in 2% and 4% Tolerance
- . Pb-Free Packages are available
- . High ESD Level (HBM>8,000V, MM>800V)

Maximum Ratings ( $T_A=25\text{ }^{\circ}\text{C}$ , unless otherwise noted)

Rating	Symbol	Rating	Unit
Input Voltage (-5V – -18V) (-24V)	$V_I$	-35	V
		-40	
Power Dissipation	$P_D$	Internally Limited	W
Thermal Resistance of Junction to Ambient	$R_{\theta JA}$	65	$^{\circ}\text{C}/\text{W}$
Thermal Resistance of Junction to Case	$R_{\theta JC}$	5	$^{\circ}\text{C}/\text{W}$
Storage Junction Temperature	$T_{STG}$	-65 ~ 150	$^{\circ}\text{C}$
Operating Junction Temperature	$T_J$	+ 150	$^{\circ}\text{C}$

## Standard Application





# LM7905P ~ LM7924P

## LM7905P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -10\text{V}$ ,  $I_o = 500\text{ mA}$ ,  $C_i = 2.2\text{ }\mu\text{F}$ ,  $C_o = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	V <sub>O</sub>	$T_J = 25^\circ\text{C}$	-4.8	-5.0	-5.2	V
		$5\text{mA} \leq I_o \leq 1.0\text{A}, P_D \leq 15\text{W}$				
		$-7\text{V} \geq V_{IN} \geq -20\text{V}$	-4.75	-5.0	-5.25	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-7.0\text{V} \geq V_{IN} \geq -25\text{V}$			100	mV
		$-8.0\text{V} \geq V_{IN} \geq -12\text{V}$			50	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_o \leq 1.5\text{A}$			100	mV
		$250\text{ mA} \leq I_o \leq 750\text{ mA}$			50	
Quiescent current	I <sub>Q</sub>	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_o \leq 1.0\text{ A}$			0.5	mA
		$-8.0\text{V} \geq V_{IN} \geq -25\text{V}$			0.8	
Output Voltage Drift	$\Delta V_O / \Delta T$	$I_o = 5\text{ mA}$		-0.4		mV/ $^\circ\text{C}$
Output noise voltage	V <sub>N</sub>	$10\text{ Hz} \leq f \leq 100\text{ KHz}, T_A = 25^\circ$		40		$\mu\text{V}/V_O$
Ripple rejection	RR	$-8.0\text{V} \geq V_{IN} \geq -18\text{V}, f = 120\text{ Hz}$	54	60		dB
Dropout voltage	V <sub>DROP</sub>	$I_o = 1.0\text{A}, T_J = 25^\circ\text{C}$		1.3		V
Short circuit current limit	I <sub>SC</sub>	$V_{IN} = -35\text{V}, T_A = 25^\circ\text{C}$		500		mA
Peak output current	I <sub>PK</sub>	$T_J = 25^\circ\text{C}$		2.2		A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of V<sub>O</sub> due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7906P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -11\text{V}$ ,  $I_o = 500\text{ mA}$ ,  $C_i = 2.2\text{ }\mu\text{F}$ ,  $C_o = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	V <sub>O</sub>	T <sub>J</sub> =25°C	-5.75	-6.0	-6.25	V
		5mA ≤ I <sub>O</sub> ≤ 1.0A, P <sub>D</sub> ≤15W				
		-8V ≥ V <sub>IN</sub> ≥ -21V	-5.7	-6.0	-6.3	
Line regulation (T <sub>J</sub> =25°C) <b>(Note 1)</b>	Regline	-8.0V ≥ V <sub>IN</sub> ≥ -25V			120	mV
		-9.0V ≥ V <sub>IN</sub> ≥ -13V			60	
Load regulation (T <sub>J</sub> =25°C) <b>(Note 1)</b>	Regload	5.0 mA ≤ I <sub>O</sub> ≤ 1.5A			120	mV
		250 mA ≤ I <sub>O</sub> ≤ 750 mA			60	
Quiescent current	I <sub>Q</sub>	T <sub>J</sub> =25°C			6	mA
Quiescent current change	Δ I <sub>Q</sub>	5.0 mA ≤ I <sub>O</sub> ≤ 1.0 A			0.5	mA
		-8.0V ≥ V <sub>IN</sub> ≥ -25V			1.3	
Output Voltage Drift	ΔV <sub>O</sub> /ΔT	I <sub>O</sub> = 5 mA			-0.5	mV/°C
Output noise voltage	V <sub>N</sub>	10 Hz ≤ f ≤ 100 KHz, T <sub>A</sub> =25°		130		μV/V <sub>O</sub>
Ripple rejection	RR	-9.0V ≥ V <sub>IN</sub> ≥ -19V, f=120 Hz	54	60		dB
Dropout voltage	V <sub>DROP</sub>	I <sub>O</sub> = 1.0A, T <sub>J</sub> =25°C			1.3	V
Short circuit current limit	I <sub>SC</sub>	V <sub>IN</sub> = -35V, T <sub>A</sub> =25°C		500		mA
Peak output current	I <sub>PK</sub>	T <sub>J</sub> =25°C		2.2		A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of V<sub>O</sub> due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7908P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -14\text{V}$ ,  $I_O = 500\text{ mA}$ ,  $C_I = 2.2\text{ }\mu\text{F}$ ,  $C_O = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_O$	$T_J = 25^\circ\text{C}$	-7.7	-8.0	-8.3	V
		$5\text{mA} \leq I_O \leq 1.0\text{A}$ , $P_D \leq 15\text{W}$ $-10.5\text{V} \geq V_{IN} \geq -23\text{V}$	-7.6	-8.0	-8.4	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-10.5\text{V} \geq V_{IN} \geq -25\text{V}$			160	mV
		$-11.5\text{V} \geq V_{IN} \geq -17\text{V}$			80	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_O \leq 1.5\text{A}$			160	mV
		$250\text{ mA} \leq I_O \leq 750\text{ mA}$			80	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_O \leq 1.0\text{ A}$			0.5	mA
		$-10.5\text{V} \geq V_{IN} \geq -25\text{V}$			1.0	
Output Voltage Drift	$\Delta V_O / \Delta T$	$I_O = 5\text{ mA}$		-0.6		mV/°C
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}$ , $T_A = 25^\circ$		175		μV/V <sub>O</sub>
Ripple rejection	RR	$-11.5\text{V} \geq V_{IN} \geq -21.5\text{V}$ , $f = 120\text{ Hz}$	54	60		dB
Dropout voltage	$V_{DROP}$	$I_O = 1.0\text{A}$ , $T_J = 25^\circ\text{C}$		1.3		V
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}$ , $T_A = 25^\circ\text{C}$		500		mA
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$		2.2		A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7909P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -15\text{V}$ ,  $I_O = 500\text{ mA}$ ,  $C_I = 2.2\text{ }\mu\text{F}$ ,  $C_O = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_O$	$T_J = 25^\circ\text{C}$	-8.65	-9.0	-9.35	V
		$5\text{mA} \leq I_O \leq 1.0\text{A}$ , $P_D \leq 15\text{W}$ $-11.5\text{V} \geq V_{IN} \geq -24\text{V}$	-8.6	-9.0	-9.4	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-11.5\text{V} \geq V_{IN} \geq -25\text{V}$			180	mV
		$-12\text{V} \geq V_{IN} \geq -17\text{V}$			90	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_O \leq 1.5\text{A}$			180	mV
		$250\text{ mA} \leq I_O \leq 750\text{ mA}$			90	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_O \leq 1.0\text{ A}$			0.5	mA
		$-11.5\text{V} \geq V_{IN} \geq -26\text{V}$			1.0	
Output Voltage Drift	$\Delta V_O / \Delta T$	$I_O = 5\text{ mA}$		-0.6		mV/ $^\circ\text{C}$
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}$ , $T_A = 25^\circ\text{C}$		175		$\mu\text{V}/V_O$
Ripple rejection	RR	$-13\text{V} \leq V_{IN} \leq -23\text{V}$ , $f = 120\text{ Hz}$	54	60		dB
Dropout voltage	$V_{DROP}$	$I_O = 1.0\text{A}$ , $T_J = 25^\circ\text{C}$			1.3	V
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}$ , $T_A = 25^\circ\text{C}$			500	mA
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$			2.2	A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7910P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -16\text{V}$ ,  $I_O = 500\text{ mA}$ ,  $C_I = 2.2\text{ }\mu\text{F}$ ,  $C_O = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_O$	$T_J = 25^\circ\text{C}$	-9.6	-10	-10.4	V
		$5\text{mA} \leq I_O \leq 1.0\text{A}, P_D \leq 15\text{W}$				
		$-12.5\text{V} \geq V_{IN} \geq -25\text{V}$	-9.5	-10	-10.5	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-12.5\text{V} \geq V_{IN} \geq -25\text{V}$			200	mV
		$-13\text{V} \geq V_{IN} \geq -25\text{V}$			100	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_O \leq 1.5\text{A}$			200	mV
		$250\text{ mA} \leq I_O \leq 750\text{ mA}$			100	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_O \leq 1.0\text{ A}$			0.5	mA
		$-12.5\text{V} \geq V_{IN} \geq -29\text{V}$			1.0	
Output Voltage Drift	$\Delta V_O / \Delta T$	$I_O = 5\text{ mA}$			-1.0	mV/ $^\circ\text{C}$
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}, T_A = 25^\circ$		280		$\mu\text{V}/V_O$
Ripple rejection	RR	$-13\text{V} \geq V_{IN} \geq -23\text{V}, f = 120\text{ Hz}$	54	60		dB
Dropout voltage	$V_{DROP}$	$I_O = 1.0\text{A}, T_J = 25^\circ\text{C}$			1.3	V
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}, T_A = 25^\circ\text{C}$			500	mA
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$			2.2	A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7912P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -19\text{V}$ ,  $I_O = 500\text{ mA}$ ,  $C_I = 2.2\text{ }\mu\text{F}$ ,  $C_O = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_O$	$T_J = 25^\circ\text{C}$	-11.5	-12	-12.5	$\text{V}$
		$5\text{mA} \leq I_O \leq 1.0\text{A}, P_D \leq 15\text{W}$ $-14.5\text{V} \geq V_{IN} \geq -27\text{V}$	-11.4	-12	-12.6	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-14.5\text{V} \geq V_{IN} \geq -30\text{V}$			240	$\text{mV}$
		$-16\text{V} \geq V_{IN} \geq -22\text{V}$			120	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_O \leq 1.5\text{A}$			240	$\text{mV}$
		$250\text{ mA} \leq I_O \leq 750\text{ mA}$			120	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	$\text{mA}$
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_O \leq 1.0\text{ A}$			0.5	$\text{mA}$
		$-14.5\text{V} \geq V_{IN} \geq -30\text{V}$			1.0	
Output Voltage Drift	$\Delta V_O / \Delta T$	$I_O = 5\text{ mA}$		-0.8		$\text{mV}/^\circ\text{C}$
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}, T_A = 25^\circ$		200		$\mu\text{V}/V_O$
Ripple rejection	RR	$-15\text{V} \geq V_{IN} \geq -25\text{V}, f = 120\text{ Hz}$	54	60		$\text{dB}$
Dropout voltage	$V_{DROP}$	$I_O = 1.0\text{A}, T_J = 25^\circ\text{C}$			1.3	$\text{V}$
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}, T_A = 25^\circ\text{C}$			500	$\text{mA}$
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$			2.2	$\text{A}$

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7915P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -23\text{V}$ ,  $I_o = 500\text{ mA}$ ,  $C_i = 2.2\text{ }\mu\text{F}$ ,  $C_o = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_J = 25^\circ\text{C}$	-14.4	-15	-15.6	V
		$5\text{mA} \leq I_o \leq 1.0\text{A}, P_D \leq 15\text{W}$ $-17.5\text{V} \geq V_{IN} \geq -30\text{V}$	-14.25	-15	-15.75	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-17.5\text{V} \geq V_{IN} \geq -30\text{V}$			300	mV
		$-20\text{V} \geq V_{IN} \geq -26\text{V}$			150	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_o \leq 1.5\text{A}$			300	mV
		$250\text{ mA} \leq I_o \leq 750\text{ mA}$			150	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_o \leq 1.0\text{ A}$			0.5	mA
		$-17.5\text{V} \geq V_{IN} \geq -30\text{V}$			1.0	
Output Voltage Drift	$\Delta V_o / \Delta T$	$I_o = 5\text{ mA}$		-0.9		mV/ $^\circ\text{C}$
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}, T_A = 25^\circ$		250		$\mu\text{V}/V_o$
Ripple rejection	RR	$-18.5\text{V} \geq V_{IN} \geq -28.5\text{V}, f = 120\text{ Hz}$	54	60		dB
Dropout voltage	$V_{DROP}$	$I_o = 1.0\text{A}, T_J = 25^\circ\text{C}$		1.3		V
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}, T_A = 25^\circ\text{C}$		500		mA
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$		2.2		A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7918P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -27\text{V}$ ,  $I_o = 500\text{ mA}$ ,  $C_I = 2.2\text{ }\mu\text{F}$ ,  $C_O = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_J = 25^\circ\text{C}$	-17.3	-18	-18.7	V
		$5\text{mA} \leq I_o \leq 1.0\text{A}$ , $P_D \leq 15\text{W}$ $-21\text{V} \geq V_{IN} \geq -33\text{V}$	-17.1	-18	-18.9	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-21\text{V} \geq V_{IN} \geq -33\text{V}$			360	mV
		$-24\text{V} \geq V_{IN} \geq -30\text{V}$			180	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_o \leq 1.5\text{A}$			360	mV
		$250\text{ mA} \leq I_o \leq 750\text{ mA}$			180	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_o \leq 1.0\text{ A}$			0.5	mA
		$-21\text{V} \geq V_{IN} \geq -33\text{V}$			1.0	
Output Voltage Drift	$\Delta V_o / \Delta T$	$I_o = 5\text{ mA}$		-1.0		mV/ $^\circ\text{C}$
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}$ , $T_A = 25^\circ$		300		$\mu\text{V}/V_o$
Ripple rejection	RR	$-22\text{V} \geq V_{IN} \geq -32\text{V}$ , $f = 120\text{ Hz}$	54	60		dB
Dropout voltage	$V_{DROP}$	$I_o = 1.0\text{A}$ , $T_J = 25^\circ\text{C}$		1.3		V
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}$ , $T_A = 25^\circ\text{C}$		500		mA
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$		2.2		A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.



# LM7905P ~ LM7924P

## LM7924P Electrical characteristics

( $T_J = 0$  to  $125^\circ\text{C}$ ,  $V_{IN} = -33\text{V}$ ,  $I_o = 500\text{ mA}$ ,  $C_i = 2.2\text{ }\mu\text{F}$ ,  $C_o = 1.0\text{ }\mu\text{F}$ , unless otherwise noted)

Characteristic	Symbol	Condition	Min	Typ	Max	Unit
Output voltage	$V_o$	$T_J = 25^\circ\text{C}$	-23	-24	-25	V
		$5\text{mA} \leq I_o \leq 1.0\text{A}, P_D \leq 15\text{W}$ $-27\text{V} \geq V_{IN} \geq -38\text{V}$	-22.8	-24	-25.25	
Line regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regline	$-27\text{V} \geq V_{IN} \geq -38\text{V}$			480	mV
		$-30\text{V} \geq V_{IN} \geq -36\text{V}$			180	
Load regulation ( $T_J = 25^\circ\text{C}$ ) <b>(Note 1)</b>	Regload	$5.0\text{ mA} \leq I_o \leq 1.5\text{A}$			480	mV
		$250\text{ mA} \leq I_o \leq 750\text{ mA}$			240	
Quiescent current	$I_Q$	$T_J = 25^\circ\text{C}$			6	mA
Quiescent current change	$\Delta I_Q$	$5.0\text{ mA} \leq I_o \leq 1.0\text{ A}$			0.5	mA
		$-27\text{V} \geq V_{IN} \geq -38\text{V}$			1.0	
Output Voltage Drift	$\Delta V_o / \Delta T$	$I_o = 5\text{ mA}$			-1.0	mV/ $^\circ\text{C}$
Output noise voltage	$V_N$	$10\text{ Hz} \leq f \leq 100\text{ KHz}, T_A = 25^\circ$			400	$\mu\text{V}/V_o$
Ripple rejection	RR	$-28\text{V} \geq V_{IN} \geq -38\text{V}, f = 120\text{ Hz}$	54	60		dB
Dropout voltage	$V_{DROP}$	$I_o = 1.0\text{A}, T_J = 25^\circ\text{C}$			1.3	V
Short circuit current limit	$I_{SC}$	$V_{IN} = -35\text{V}, T_A = 25^\circ\text{C}$			500	mA
Peak output current	$I_{PK}$	$T_J = 25^\circ\text{C}$			2.2	A

**Note 1** Line and Load regulation are specified at constant junction temperature. Changes of  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty circle is used.

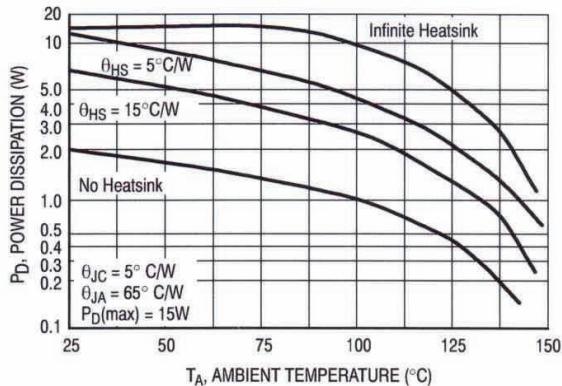


Figure 2. Worst Case Power Dissipation as a Function of Ambient Temperature

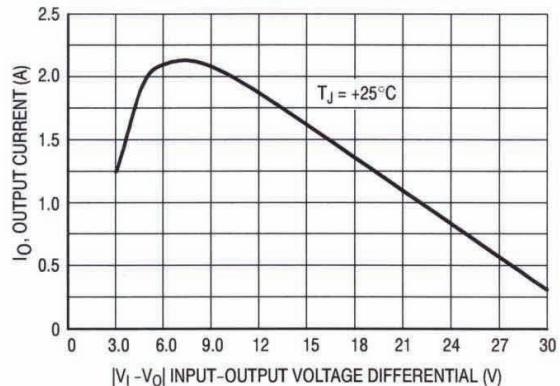


Figure 3. Peak Output Current as a Function of Input-Output Differential Voltage

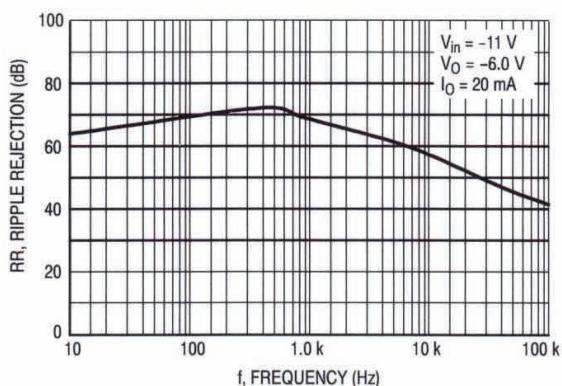


Figure 4. Ripple Rejection as a Function of Frequency

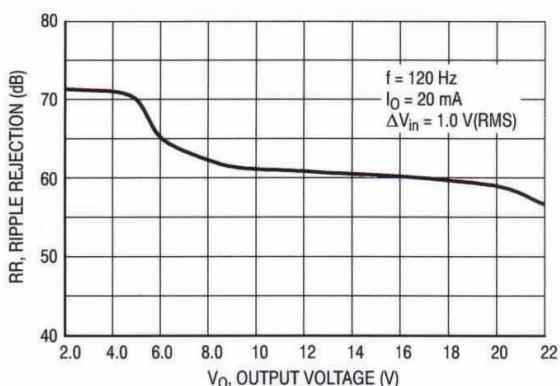


Figure 5. Ripple Rejection as a Function of Output Voltage

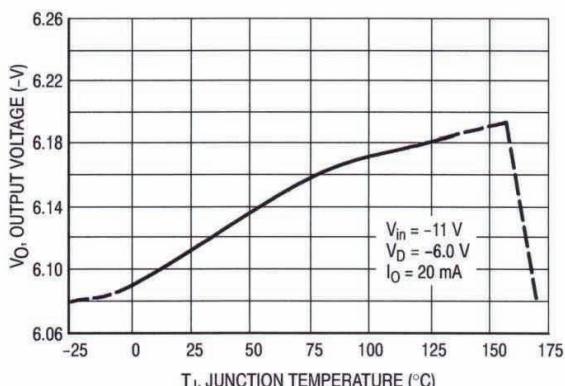


Figure 6. Output Voltage as a Function of Junction Temperature

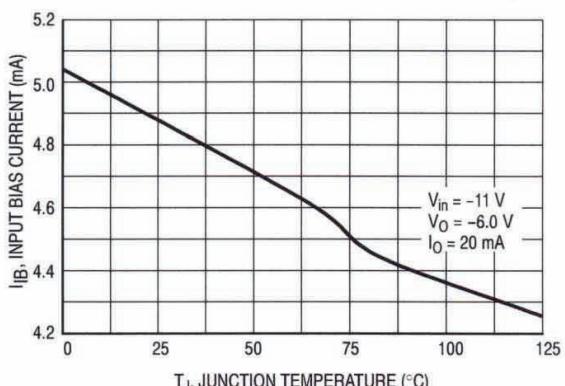


Figure 7. Quiescent Current as a Function of Temperature