

79L08 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -8V$
- Continuous total dissipation
 $P_D: 0.625 W (T_a = 25^\circ C)$



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

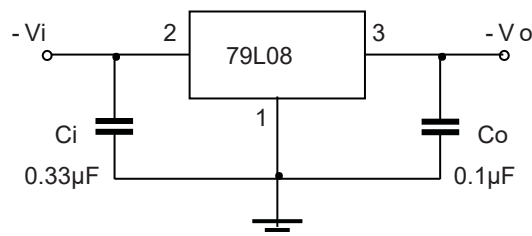
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	200	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	-40~+125	$^\circ C$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ C$

$T_a = 25^\circ C$ unless otherwise specified ($V_i = -14V$, $I_o = 40mA$, $C_i = 0.33\mu F$, $C_o = 0.1\mu F$, unless otherwise specified)

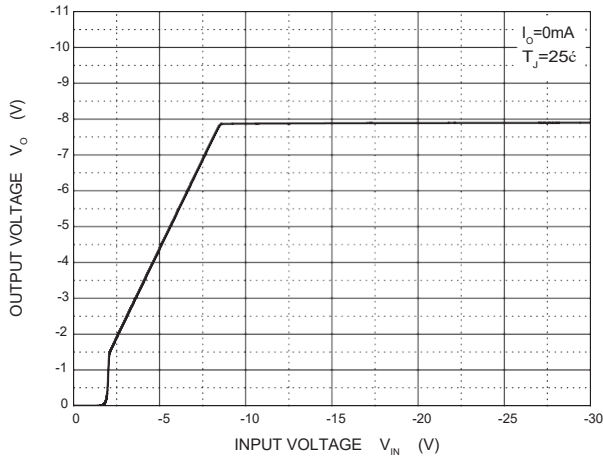
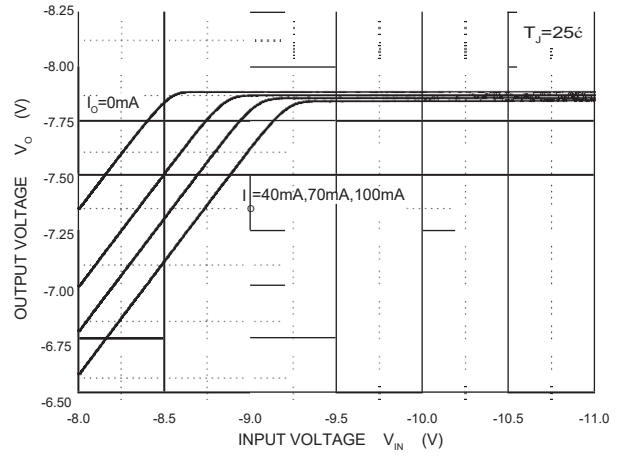
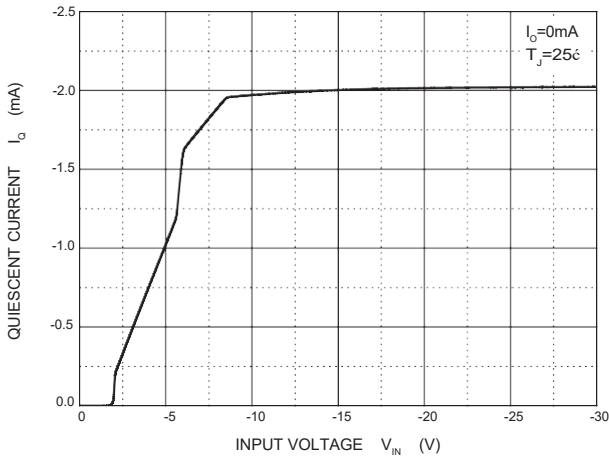
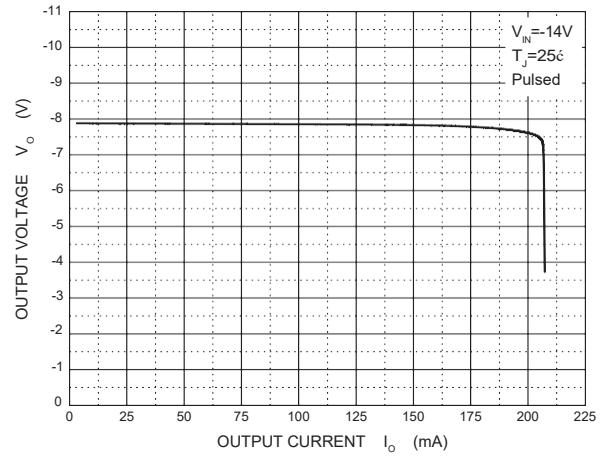
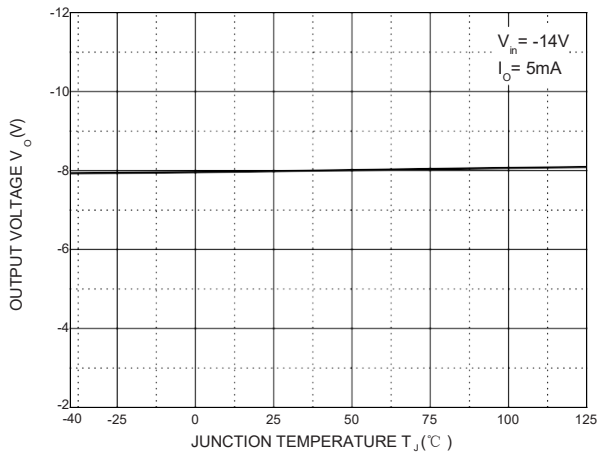
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	$T_J = 25^\circ C$	-7.76	-8.0	-8.24	V
		-10.5VKV/K-23V, $I_o = 1mA \sim 40mA$	-7.6	-8.0	-8.4	V
		$I_o = 1mA \sim 70mA$	-7.6	-8.0	-8.4	V
Load Regulation	$\% V_o$	$I_o = 1mA \sim 100mA$, $T_J = 25^\circ C$		30	100	mV
		$I_o = 1mA \sim 40mA$, $T_J = 25^\circ C$		15	50	mV
Line Regulation	$\% V_o$	-10.5VKV/K-23V, $T_J = 25^\circ C$		42	200	mV
		-11VKV/K-23V, $T_J = 25^\circ C$		36	150	mV
Quiescent Current	I_q	$T_J = 25^\circ C$		4	6	mA
Quiescent Current Change	$\% I_q$	-11VKV/K-23V			1.5	mA
	$\% I_q$	1mA I_o K40mA			0.1	mA
Output Noise Voltage	V_N	10HzKfK100KHz, $T_J = 25^\circ C$		54		$\mu V/V_o$
Ripple Rejection	RR	-11VKV/K-21V, $f = 120Hz$	37	46		dB
Dropout Voltage	V_d	$T_J = 25^\circ C$		1.7		V

* Pulse test.

TYPICAL APPLICATION



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Output Characteristics

Dropout Characteristics

Quiescent Current vs Input Voltage

Current Cut-off Grid Voltage

Output Voltage vs Junction Temperature

Power Derating Curve
