

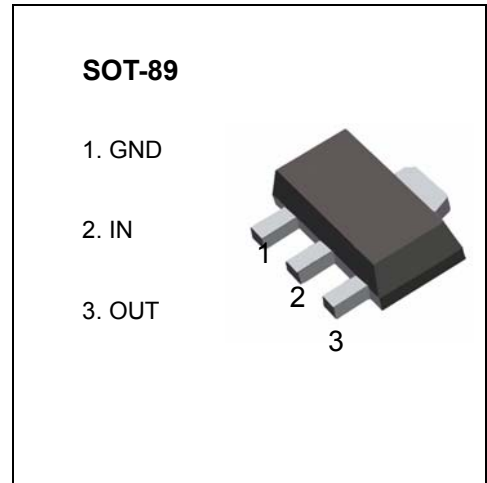


SOT-89 Encapsulate Three Terminal Voltage Regulator

79L08 Three-terminal negative voltage regulator

FEATURES

- Maximum Output current
 $I_{OM}: 0.1 \text{ A}$
- Output voltage
 $V_O: -8 \text{ V}$
- Continuous total dissipation
 $P_D: 0.5 \text{ W}$



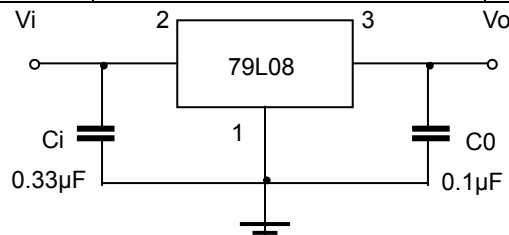
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=-14V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	-7.7	-8.0	-8.3	V
		-10.5V ≤ V_i ≤ -23V, $I_o=1mA\sim 40mA$	-7.6	-8.0	-8.4	V
		0-125°C $I_o=1mA\sim 70mA$	-7.6	-8.0	-8.4	V
Load Regulation	ΔV_o	$I_o=1mA\sim 100mA$ 25°C		30	100	mV
		$I_o=1mA\sim 40mA$ 25°C		15	50	mV
Line regulation	ΔV_o	-10.5V ≤ V_i ≤ -23V 25°C		42	200	mV
		-11V ≤ V_i ≤ -23V 25°C		36	150	mV
Quiescent Current	I_q	25°C		4	6	mA
Quiescent Current Change	ΔI_q	-11V ≤ V_i ≤ -23V 0-125°C			1.5	mA
	ΔI_q	1mA ≤ I_o ≤ 40mA 0-125°C			0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz 25°C		54		uV
Ripple Rejection	RR	-11V ≤ V_i ≤ -21V, f=120Hz 0-125°C	37	46		dB
Dropout Voltage	V_d	25°C		1.7		V

TYPICAL APPLICATION



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

Typical Characteristics

79LXX

