

SOT-89 Encapsulate Three-terminal Voltage Regulators

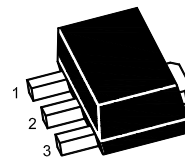
79L08 Three-terminal negative voltage regulator

FEATURES

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

SOT-89 Plastic Package

1. GND
2. IN
3. OUT



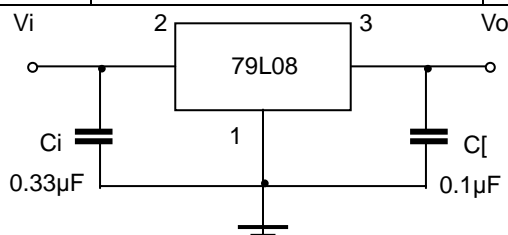
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

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

Parameter	Symbol	Test conditions	$M\%b$	Tnd	MU	$I\ b\%h$
Output Voltage	V_o	25°C	-7.7	-8.0	-8.3	V
		$-10.5\text{V} \leq V_I \leq -23\text{V}$, $I_o=1\text{mA} \sim 40\text{mA}$	-7.6	-8.0	-8.4	V
		$0-125^\circ\text{C}$, $I_o=1\text{mA} \sim 70\text{mA}$	-7.6	-8.0	-8.4	V
Load Regulation	ΔV_o	$I_o=1\text{mA} \sim 100\text{mA}$, 25°C		30	100	mV
		$I_o=1\text{mA} \sim 40\text{mA}$, 25°C		15	50	mV
Line Regulation	ΔV_o	$-10.5\text{V} \leq V_I \leq -23\text{V}$, 25°C		42	200	mV
		$-11\text{V} \leq V_I \leq -23\text{V}$, 25°C		36	150	mV
Quiescent Current	I_q	25°C		4	6	mA
Quiescent Current Change	ΔI_q	$-11\text{V} \leq V_I \leq -23\text{V}$, $0-125^\circ\text{C}$			1.5	mA
	ΔI_q	$1\text{mA} \leq I_o \leq 40\text{mA}$, $0-125^\circ\text{C}$			0.1	mA
Output Noise Voltage	V_N	$10\text{Hz} \leq f \leq 100\text{KHz}$, 25°C		54		uV
Ripple Rejection	RR	$-11\text{V} \leq V_I \leq -21\text{V}$, $f=120\text{Hz}$, $0-125^\circ\text{C}$	37	46		dB
Dropout Voltage	V_d	25°C		1.7		V

TYPICAL APPLICATION

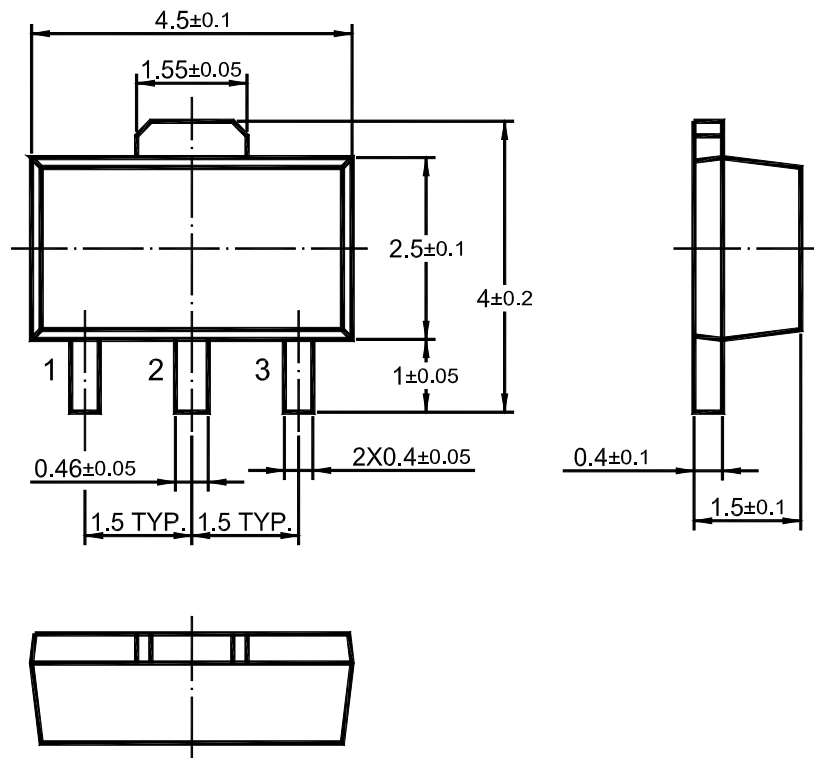


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.



79L08

SOT-89 PACKAGE OUTLINE



Dimensions in mm

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