

H79L08 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

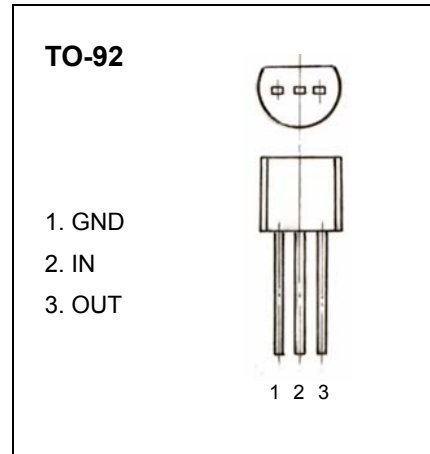
$$I_{OM}: 0.1 \text{ A}$$

Output voltage

$$V_O: -8 \text{ V}$$

Continuous total dissipation

$$P_D: 0.625 \text{ W}$$



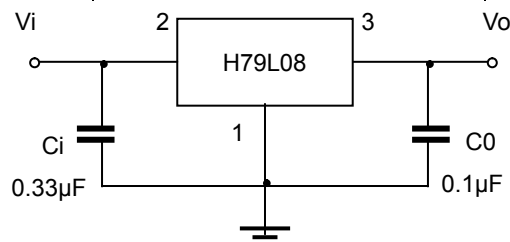
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ($V_i = -14V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, 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, $I_o = 1mA \sim 40mA$	0-125°C	-7.6	-8.0	-8.4	V
		$I_o = 1mA \sim 70mA$		-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	
		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
H79LXX
