

H79L09 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

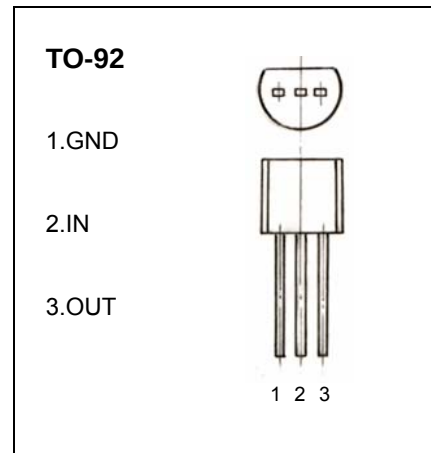
$$I_{OM}: 0.1 \text{ A}$$

Output voltage

$$V_O: -9 \text{ V}$$

Continuous total dissipation

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



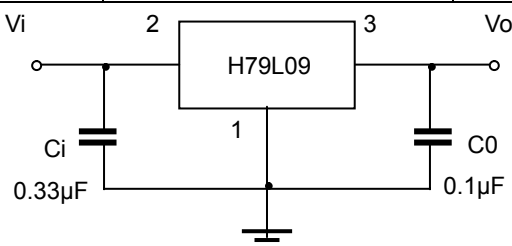
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ($V_i = -16 \text{ V}$, $I_o = 40 \text{ mA}$, $C_i = 0.33 \mu\text{F}$, $C_o = 0.1 \mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	-8.64	-9.0	-9.36	V
		-12V ≤ V_i ≤ -24V, $I_o = 1 \text{ mA} - 40 \text{ mA}$	-8.55	-9.0	-9.45	V
		$I_o = 1 \text{ mA} - 70 \text{ mA}$	-8.55	-9.0	-9.45	V
Load Regulation	ΔV_o	$I_o = 1 \text{ mA} - 100 \text{ mA}$		19	90	mV
		$I_o = 1 \text{ mA} - 40 \text{ mA}$		11	40	mV
Line regulation	ΔV_o	-12 V ≤ V_i ≤ -24 V		45	175	mV
		-13 V ≤ V_i ≤ -24 V		40	125	mV
Quiescent Current	I_q	25°C		4.1	6.0	mA
Quiescent Current Change	ΔI_q	-13 V ≤ V_i ≤ -24 V			1.5	mA
	ΔI_q	1 mA ≤ V_i ≤ 40 mA			0.1	mA
Output Noise Voltage	V_N	10 Hz ≤ f ≤ 100 KHz		58		uV
Ripple Rejection	RR	-15 V ≤ V_i ≤ -24 V, $f = 120 \text{ Hz}$		45		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

