LM79L08

Three-terminal negative voltage regulator

Maximum output current $I_{O:}$ 0.1 A
Output voltage V_O: -8 V
Continuous total dissipation
P_D : SOT-23-3L 0.35 W (T_a= 25 ℃)
SOT-89 0.5 W (T_a= 25 ℃)

SOT-23-3L SOT-89

1. GND 2. OUT 3. IN

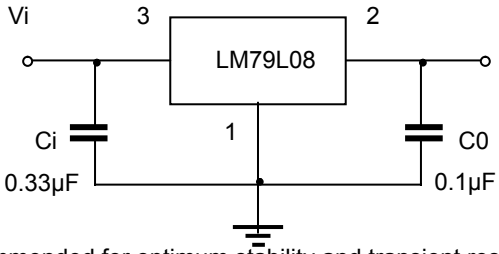
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (V_I=-14V, Io=40mA, Ci=0.33μF,Co=0.1μF,unless otherwise specified)

Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
Output voltage	Vo		25℃	-7.7	-8.0	-8.3	V
		-10.5V≤V_I≤-23V, Io=1mA~40mA	0-125℃	-7.6	-8.0	-8.4	V
		Io=1mA~70mA		-7.6	-8.0	-8.4	V
Load Regulation	ΔVo	Io=1mA~100mA	25℃		30	100	mV
		Io=1mA~40mA	25℃		15	50	mV
Line regulation	ΔVo	-10.5V≤V_I≤-23V	25℃		42	200	mV
		-11V≤V_I≤-23V	25℃		36	150	mV
Quiescent Current	Iq		25℃		4	6	mA
Quiescent Current Change	ΔIq	-11V≤V_I≤-23V	0-125℃			1.5	mA
	ΔIq	1mA≤I_O≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		54		uV
Ripple Rejection	RR	-11V≤V_I≤-21V,f=120Hz	0-125℃	37	46		dB
Dropout Voltage	Vd		25℃		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.

TypicalCharacteristics