

深圳市晶泰源电子有限公司

WL 78L08 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

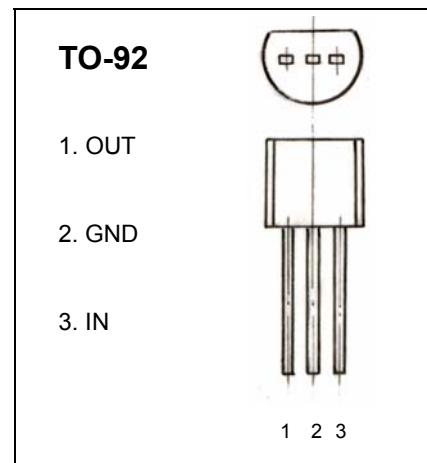
I_{OM} : 0.1 A

Output voltage

V_o : 8 V

Continuous total dissipation

P_D : 0.625W



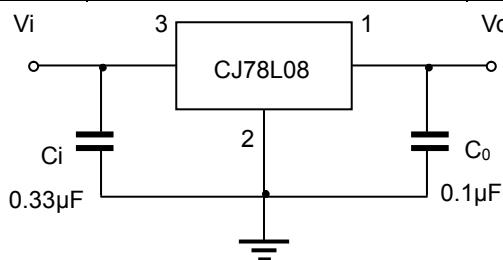
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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, $I_o=1mA~40mA$	7.6	8.0	8.4	V
		$I_o=1mA~70mA$	7.6	8.0	8.4	V
Load Regulation	ΔV_o	$I_o=1mA~100mA$	25°C	18	80	mV
		$I_o=1mA~40mA$	25°C	10	40	mV
Line regulation	ΔV_o	10.5V ≤ V_i ≤ 23V	25°C	42	175	mV
		11V ≤ V_i ≤ 23V	25°C	36	125	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	13V ≤ V_i ≤ 23V, 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.

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