

深圳市晶泰源电子有限公司

WL78L12 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1A

Output voltage

V_o : 12 V

Continuous total dissipation

P_D : 0.625 W

TO-92

1.OUT



2.GND



3.IN

1 2 3

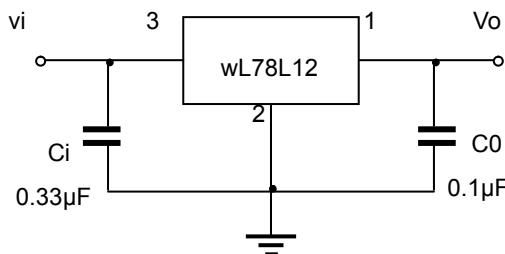
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_I	35	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($V_I=19V$, $I_O=40mA$, $C_J=0.33\mu F$, $C_O=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o		25°C	11.5	12	12.5
		14V≤ V_I ≤27V, $I_O=1mA-40mA$	0-125°C	11.4	12	12.6
		$I_O=1mA-70mA$		11.4	12	12.6
Load Regulation	ΔV_o	$I_O=1mA-100mA$	25°C		22	mV
		$I_O=1mA-40mA$	25°C		13	mV
Line regulation	ΔV_o	14.5V≤ V_I ≤27V	25°C		55	mV
		16V≤ V_I ≤27V	25°C		49	mV
Quiescent Current	I_Q		25°C		4.3	mA
Quiescent Current Change	ΔI_Q	16V≤ V_I ≤27V	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		70	uV
Ripple Rejection	RR	15V≤ V_I ≤25V, f=120Hz	0-125°C	37	42	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.

深圳市晶泰源电子有限公司

电话 : 0755-83211536 传真 : 0755-83206326
深圳市福田区华强北路华强广场C座11C