

深圳市晶泰源电子有限公司

WL79L06 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

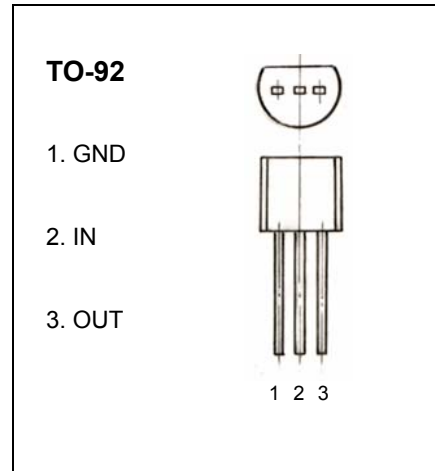
I_{OM} : 0.1 A

Output voltage

V_o : -6 V

Continuous total dissipation

P_D : 0.625 W



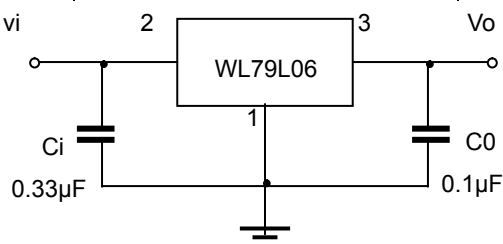
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i = -11V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	-5.75	-6.0	-6.25	V
		-8V ≤ V_i ≤ -20V, $I_o = 1mA \sim 40mA$	-5.7	-6.0	-6.3	V
		$I_o = 1mA \sim 70mA$	-5.7	-6.0	-6.3	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$	25°C	21	80	mV
		$I_o = 1mA \sim 40mA$	25°C	11	40	mV
Line regulation	ΔV_o	-8V ≤ V_i ≤ -20V	25°C	20	175	mV
		-9V ≤ V_i ≤ -20V	25°C	15	125	mV
Quiescent Current	I_q	25°C		3.9	6.0	mA
Quiescent Current Change	ΔI_q	-9V ≤ V_i ≤ -20V	0-125°C		1.5	mA
	ΔI_q	1mA ≤ V_i ≤ 40mA	0-125°C		0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C	44		uV
Ripple Rejection	RR	-9V ≤ V_i ≤ -19V, $f = 120HZ$	0-125°C	40	48	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 possible to the regulators.