79L06 VOLTAGE REGULATOR

FEATURES

Maximum Output current

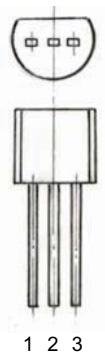
$I_{OM:}$ 0.1 A

Output voltage

V_o: -6 V

TO-92

1. GND
2. IN
3. OUT



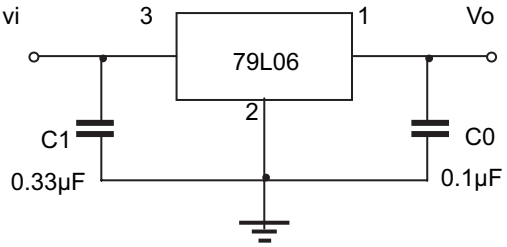
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICALCHARACTERISTICS (V_I=-11V,Io=40mA,0℃<Tj<125℃,C1=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	-5.75	-6.0	-6.25	V
		-8V≤V_I≤-20V, Io=1mA~40mA	-5.7	-6.0	-6.3	V
		-8V≤V_I≤V_{MAX}, Io=1mA~70mA	-5.7	-6.0	-6.3	V (note)
Load Regulation	ΔVo	Tj=25℃, Io=1mA~100mA		21	80	mV
		Tj=25℃, Io=1mA~40mA		11	40	mV
Line regulation	ΔVo	-8V≤V_I≤-20V, Tj=25℃		35	175	mV
		-9V≤V_I≤-20V, Tj=25℃		29	125	mV
Quiescent Current	Iq			3.9	6.0	mA
Quiescent Current Change	ΔIq	-9V≤V_I≤-20V			1.5	mA
	ΔIq	1mA≤V_I≤40mA			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		46		uV
Ripple Rejection	RR	-9V≤V_I≤-19V,f=120HZ, Tj=25℃	40	48		dB
Dropout Voltage	Vd	Tj=25℃		1.7		V

TYPICAL APPLICATION



Note 1: Bypass capacitors are recommended for optimum stability and transient response and should be located as close possible to the regulators.