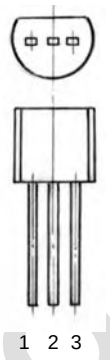
WEJ78L06 Three-terminal positive voltage regulator

TO-92

1. OUT
2. GND
3. IN



FEATURES

Maximum Output current

$I_{OM:}$ 0.1 A

Output voltage

V_o: 6 V

Operating and storage junction temperature range

T_J, T_{stg}: -55℃ to +150℃

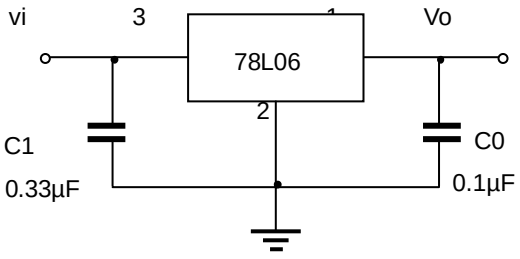
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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	℃

ELECTRICAL CHARACTERISTICS (VI=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≤20V, Io=1mA~70mA	5.7	6.0	6.3	V (note)
Load Regulation	ΔVo	Tj=25℃, Io=1mA~100mA		16	80	mV
		Tj=25℃, Io=1mA~40mA		9	40	mV
Line regulation	ΔVo	8.5V≤V_I≤20V, Tj=25℃		35	175	mV
		9V≤V_I≤20V, Tj=25℃		29	125	mV
Quiescent Current	Iq	Tj=25℃		3.9	6.0	mA
Quiescent Current Change	ΔIq	9V≤V_I≤20V			1.5	mA
	ΔIq	1mA≤I_O≤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: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.