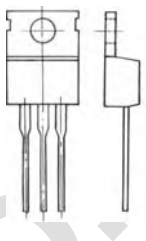
WEJ7806 Three-terminal positive voltage regulator

TO-220

1. IN
2. GND
3. OUT



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FEATURES

Maximum Output current

I_{OM}: 1.5 A

Output voltage

V_o: 5 V

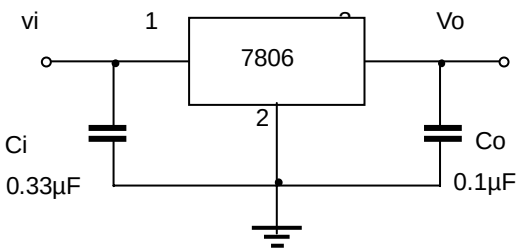
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0~+125	℃
Storage Temperature Range	T_{STG}	-55~+150	℃

ELECTRICAL CHARACTERISTICS (Vi=10V,Io=500mA,0℃<Tj<125℃,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	5.75	6	6.25	V
		8V≤V_i≤21V, Io=5mA~1A Po< 15W	5.7	6	6.3	V
Load Regulation	ΔVo	Tj=25℃, Io=5mA~1.5A		14	120	mV
		Tj=25 , Io=250mA~750mA		4	60	mV
Line regulation	ΔVo	8V≤V_i≤25V, Tj=25℃		5	120	mV
		9V≤V_i≤13V, Tj=25℃		1.5	60	mV
Quiescent Current	Iq	Tj=25℃		4.3	8	mA
Quiescent Current Change	ΔIq	8V≤V_i≤25V			1.3	mA
	ΔIq	5mA≤I_O≤1A			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		45		μV
Ripple Rejection	RR	9V≤V_i≤19V,f=120Hz,Tj=0~125℃	59	75		dB
Dropout Voltage	Vd	Tj=25℃, Io=1A		2		V
Short Circuit Current	Isc	Vi=35V, Ta=25℃		550		mA
Peak Current	Ipk	Tj=25℃		2.2		A

TYPICAL APPLICATION



WEJ ELECTRONIC CO.,LTD