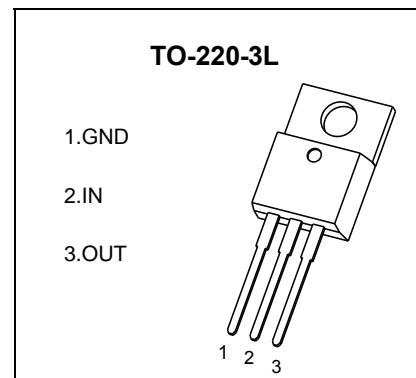


TO-220-3L Plastic-Encapsulate Voltage Regulators

CJ7906 Three-terminal negative voltage regulator

FEATURES

- Maximum output current I_{OM} : 1.5 A
- Output voltage V_O : -6V
- Continuous total dissipation P_D : 1.5 W ($T_a = 25^\circ C$)



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

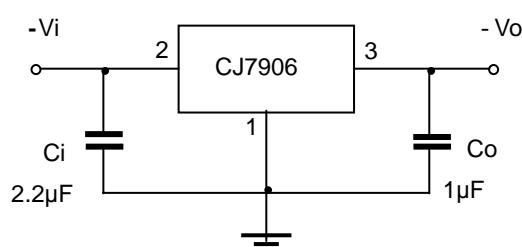
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Air	$R_{\theta JA}$	83.3	°C/W
Operating Junction Temperature Range	T_{OPR}	0~+150	°C
Storage Temperature Range	T_{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i = -11V$, $I_o = 500mA$, $C_i = 2.2\mu F$, $C_o = 1\mu F$, unless otherwise specified)

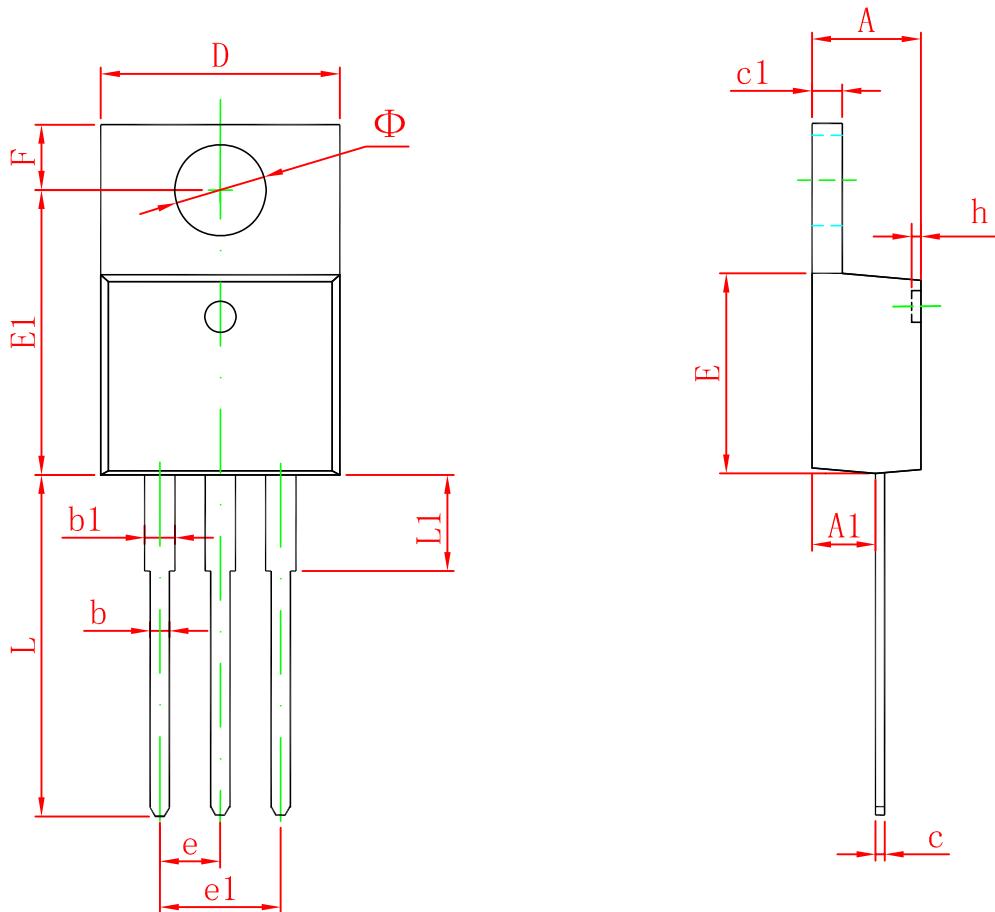
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V_o		25°C	-5.76	-6	-6.24	V
		-8V ≤ V_i ≤ -21V, $I_o = 5mA$ -1A	0-125°C	-5.7	-6	-6.3	V
Load Regulation	ΔV_o	$I_o = 5mA$ -1.5A	25°C		15	120	mV
		$I_o = 250mA$ -750mA	25°C		5	60	mV
Line Regulation	ΔV_o	-8V ≤ V_i ≤ -25V	25°C		12.5	120	mV
		-9V ≤ V_i ≤ -13V	25°C		4	60	mV
Quiescent Current	I_q		25°C		1.5	2	mA
Quiescent Current Change	ΔI_q	-8V ≤ V_i ≤ -25V	0-125°C			1.3	mA
	ΔI_q	5mA ≤ I_o ≤ 1A	0-125°C			0.5	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C		150		µV/Vo
Output Voltage Drift	$\Delta V_o/\Delta T$	$I_o = 5mA$	0-125°C		-0.4		mV/°C
Ripple Rejection	RR	-9V ≤ V_i ≤ -19V, f=120Hz	0-125°C	54	60		dB
Dropout Voltage	V_d	$I_o = 1A$	25°C		1.1		V
Peak Current	I_{pk}		25°C		2.1		A

* Pulse test.

TYPICAL APPLICATION



TO-220-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.470	4.670	0.176	0.184
A1	2.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.310	0.530	0.012	0.021
c1	1.170	1.370	0.046	0.054
D	10.010	10.310	0.394	0.406
E	8.500	8.900	0.335	0.350
E1	12.060	12.460	0.475	0.491
e	2.540 TYP		0.100 TYP	
e1	4.980	5.180	0.196	0.204
F	2.590	2.890	0.102	0.114
h	0.000	0.300	0.000	0.012
L	13.400	13.800	0.528	0.543
L1	3.560	3.960	0.140	0.156
Φ	3.735	3.935	0.147	0.155