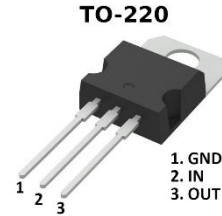


L7912CV

Three-terminal negative voltage regulator

FEATURES

- Maximum Output Current I_{OM} : 1.5A
- Output Voltage V_O : -12V
- Continuous total dissipation
 P_D : 1.5W($T_A=25^\circ\text{C}$)



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

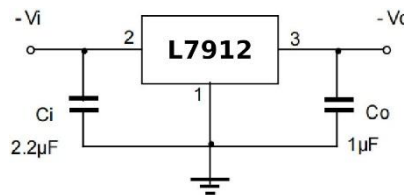
Parameter	Symbol	Value	UNIT
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	83.3	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_{OPR}	0 ~ +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

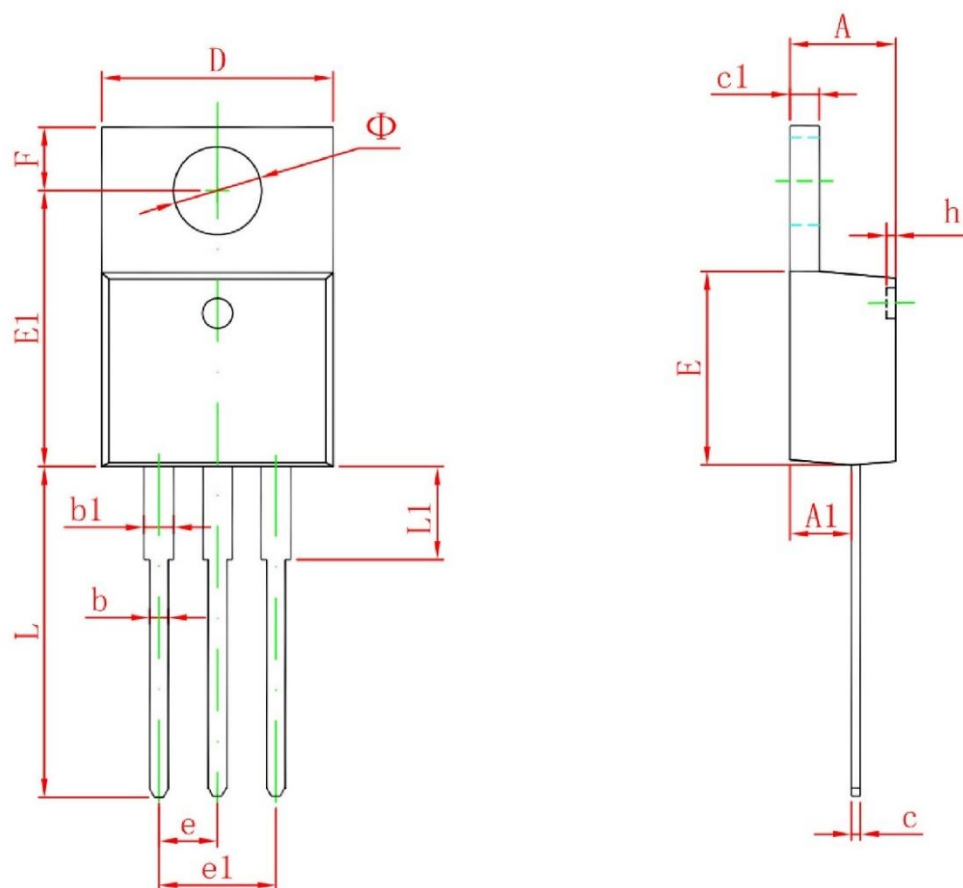
($V_i=-19\text{V}$, $I_O=500\text{mA}$, $C_i=2.2\mu\text{F}$, $C_o=1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output Voltage	V_O	25 $^\circ\text{C}$	-11.52	-12	-12.48	V
		-14.5V $\leq V_i \leq$ -27V, $I_O=5\text{mA}-1\text{A}$ 0~125 $^\circ\text{C}$	-11.4	-12	-12.6	
Load Regulation	ΔV_O	$I_O=5\text{mA}-1.5\text{A}$ 25 $^\circ\text{C}$		15	200	mV
		$I_O=250\text{mA}-750\text{mA}$ 25 $^\circ\text{C}$		5	75	
Line Regulation	ΔV_O	-14.5V $\leq V_i \leq$ -30V 25 $^\circ\text{C}$		5	80	mV
		-16V $\leq V_i \leq$ -22V 25 $^\circ\text{C}$		3	30	
Quiescent Current	I_Q	25 $^\circ\text{C}$		2	3	mA
Quiescent Current Change	ΔI_Q	-14.5V $\leq V_i \leq$ -30V 0~125 $^\circ\text{C}$			0.5	mA
		5mA $\leq I_O \leq$ 1A 0~125 $^\circ\text{C}$			0.5	
Output Noise Voltage	V_N	10Hz $\leq F \leq$ 100KHz 25 $^\circ\text{C}$		300		$\mu\text{V}/V_O$
Output Voltage Drift	$\Delta V_O/\Delta T$	$I_O=5\text{mA}$ 0~125 $^\circ\text{C}$		-0.8		mV/ $^\circ\text{C}$
Ripple Rejection	RR	-15V $\leq V_i \leq$ -25V, F=120Hz 0~125 $^\circ\text{C}$	54	60		dB
Dropout Voltage	V_D	$I_O=1\text{A}$ 25 $^\circ\text{C}$		1.1		V
Peak Current	I_{PK}	25 $^\circ\text{C}$		2.1		A

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

All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.