



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220 Encapsulate Voltage Regulator

CJ7915 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

I_{OM} : 1.5 A

Output voltage

V_o : -15 V

TO-220

1 GND

2. IN

3. OUT



1 2 3

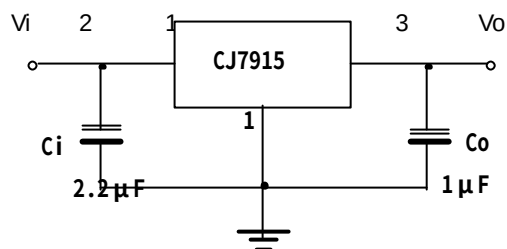
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	-20-+125	°C
Storage Temperature Range	T_{STG}	-55-+150	°C

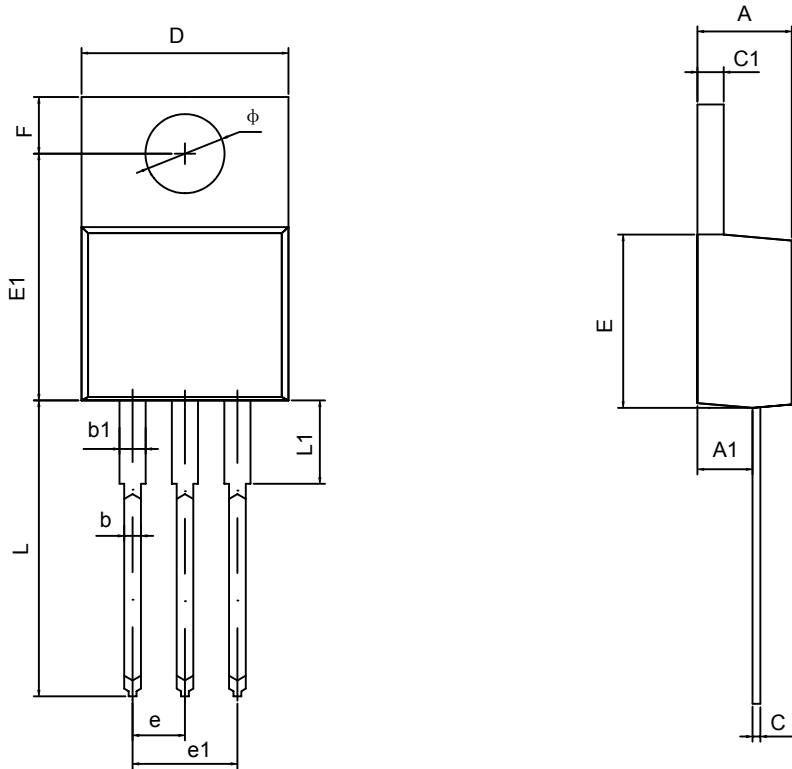
ELECTRICAL CHARACTERISTICS ($V_i=-23V, I_o=500mA, 0^{\circ}C < T_j < 125^{\circ}C, C_i=0.33 \mu F, C_o=0.1 \mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^{\circ}C$	-14.4	-15	-15.6	V
		$-17.5V \leq V_i \leq -30V, I_o=5mA-1A$ $P_o < 15W$	-14.25	-15	-15.75	V
Load Regulation	ΔV_o	$T_j=25^{\circ}C, I_o=5mA-1.5A$		15	200	mV
		$T_j=25^{\circ}C, I_o=250mA-750mA$		5	75	mV
Line regulation	ΔV_o	$-17.5V \leq V_i \leq -30V, T_j=25^{\circ}C$		5	100	mV
		$-20V \leq V_i \leq -26V, T_j=25^{\circ}C$		3	50	mV
Quiescent Current	I_q	$T_j=25^{\circ}C$		2	3	mA
Quiescent Current Change	ΔI_q	$-17.5V \leq V_i \leq -30V$			0.5	mA
	ΔI_q	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_n	$10Hz \leq f \leq 100KHz$		375		μV
Ripple Rejection	RR	$-18.5V \leq V_i \leq -28.5V, f=120Hz, T_j=25^{\circ}C$	54	60		dB
Dropout Voltage	V_d	$T_j=25^{\circ}C, I_o=1A$		1.1		V
Peak Current	I_{pk}	$T_j=25^{\circ}C$		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	1.176	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	1.710	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	2.540TYP		0.100TYP	
e1	4.980	5.180	0.196	0.204
F	2.590	2.890	0.102	0.114
L	13.400	13.800	0.528	0.543
L1	3.560	3.960	0.140	0.156
φ	3.790	3.890	0.149	0.153