



TO-92 Encapsulate Three-terminal Voltage Regulator

CJ79L15 Three-terminal positive voltage regulator

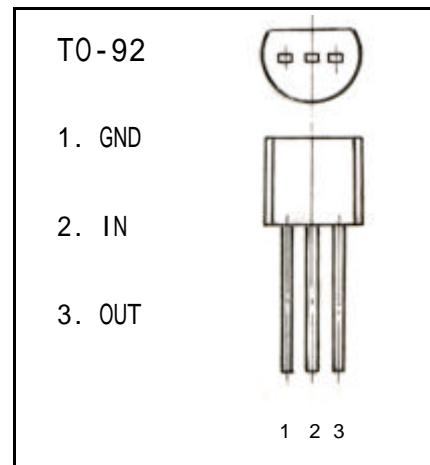
FEATURES

Maximum Output current

I_{OM} : 100 mA

Output voltage

V_O : -15 V



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

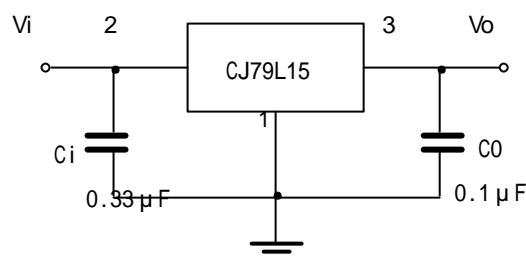
Parameter	Symbol	Value	Units
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	-20+120	
Storage Temperature Range	T_{STG}	-55+150	

ELECTRICAL CHARACTERISTICS

($V_i = -23V, I_o = 40mA, 0 < T_j < 125$, $C_1 = 0.33 \mu F, C_o = 0.1 \mu F$, unless otherwise specified)

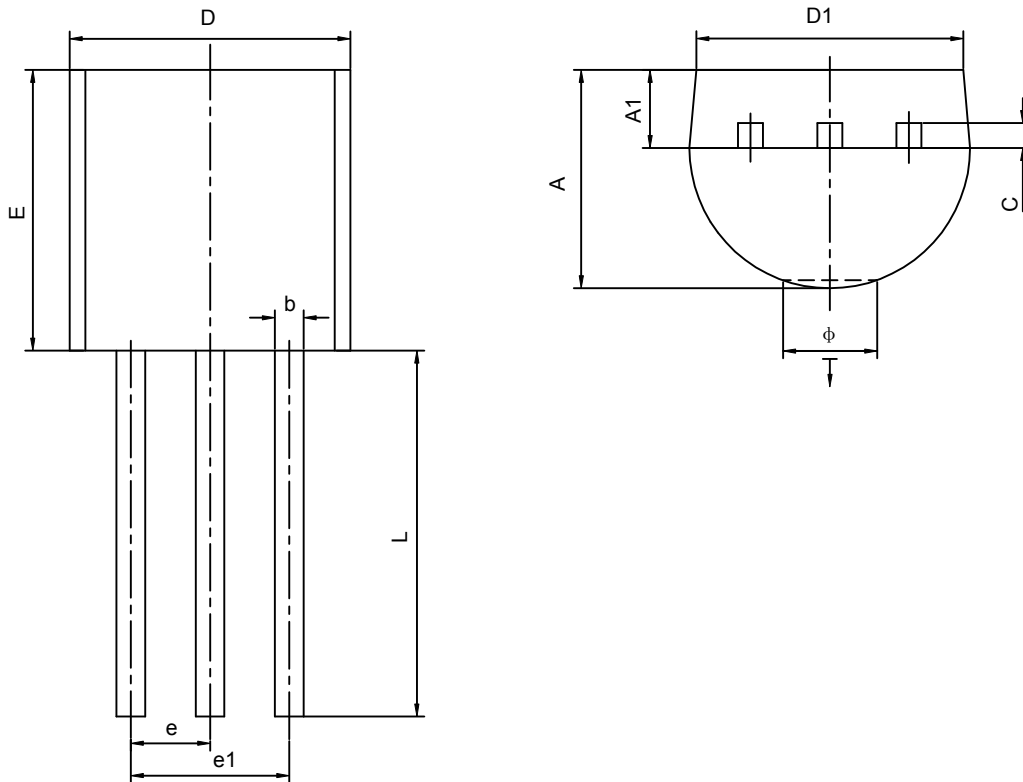
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j = 25$	-14.4	-15	-15.6	V
		-17.5V V_i -30V, $I_o = 1mA - 40mA$	-14.25	-15	-15.75	V
		$V_i = -23V, I_o = 1mA - 70mA$	-14.25	-15	-15.75	(note)
Load Regulation	V_o	$T_j = 25$, $I_o = 1mA - 100mA, V_i = -23V$		25	150	mV
		$T_j = 25$, $I_o = 1mA - 40mA, V_i = -23V$		15	75	mV
Line regulation	V_o	-17.5V V_i -30V, $T_j = 25$, $I_o = 40mA$		65	300	mV
		-19V V_i -30V, $T_j = 25$, $I_o = 40mA$		5	250	mV
Quiescent Current	I_q	$T_j = 25$			6.5	mA
Quiescent Current Change	I_q	-19V V_i -30V, $I_o = 40mA$			1.5	mA
	I_q	1mA I_o 40mA, $V_i = -23V$			0.1	mA
Output Noise Voltage	V_N	10Hz f 100KHz		90		μV
Ripple Rejection	RR	-18.5V V_i -28.5V, $f = 120Hz, 25$ T_j 125	34	39		dB
Dropout Voltage	V_d	$T_j = 25$		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.

TO-92 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270TYP		0.050TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Ö		1.600		0.063
↓	0.000	0.380	0.000	0.015