

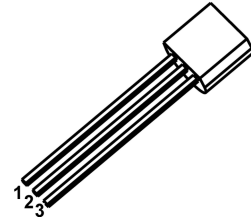
TO-92 Encapsulate Three-terminal Voltage Regulator

CJ79L15 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -1.5V$
- Continuous total dissipation
 $P_D: 0.625W$ ($T_a = 25^\circ C$)

TO-92



1. GND
2. IN
3. OUT

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

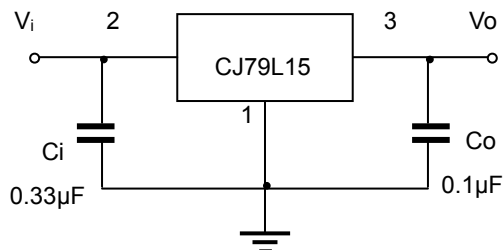
Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	200	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	0~+150	$^\circ C$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ C$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i = -23V$, $I_o = 40mA$, $C_i = 0.33\mu F$, $C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	$25^\circ C$	-14.4	-15	-15.6	V
		$-17.5V \leq V_i \leq -30V$, $I_o = 1mA \sim 40mA$	-14.25	-15	-15.75	V
		$I_o = 1mA \sim 70mA$	-14.25	-15	-15.75	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$, $V_i = -23V$		25	150	mV
		$I_o = 1mA \sim 40mA$, $V_i = -23V$		15	75	mV
Line regulation	ΔV_o	$-17.5V \leq V_i \leq -30V$, $I_o = 40mA$		65	300	mV
		$-20V \leq V_i \leq -30V$, $I_o = 40mA$		50	250	mV
Quiescent Current	I_q	$25^\circ C$			6.5	mA
Quiescent Current Change	ΔI_q	$-20V \leq V_i \leq -30V$, $I_o = 40mA$			1.5	mA
	ΔI_q	$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		90		$\mu V/V_o$
Ripple Rejection	RR	$-18.5V \leq V_i \leq -28.5V$, $f = 120Hz$	34	39		dB
Dropout Voltage	V_d	$25^\circ C$		1.7		V

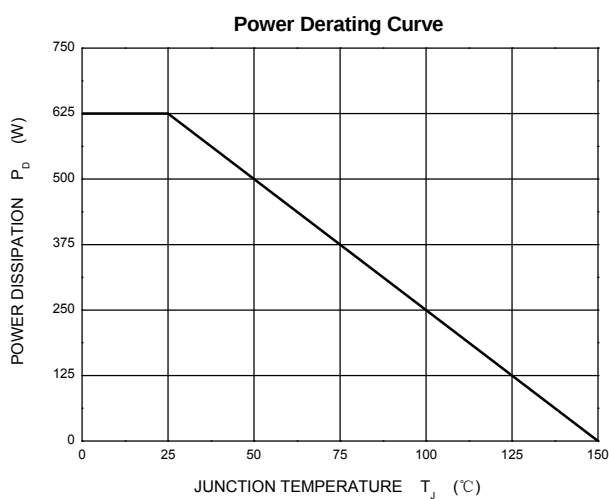
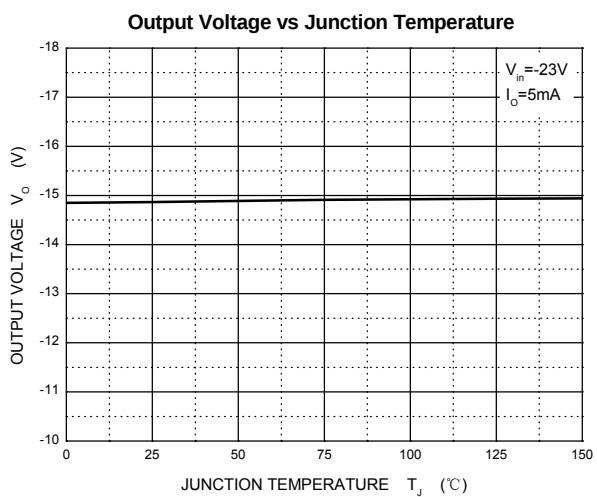
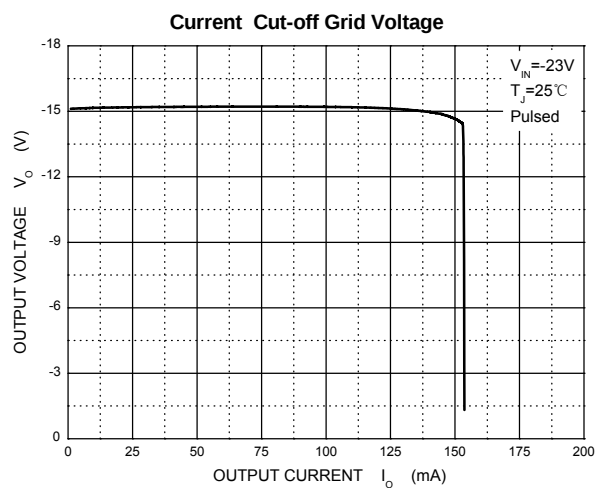
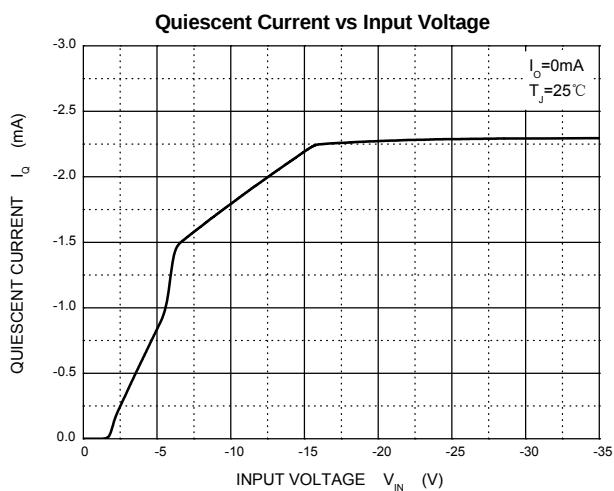
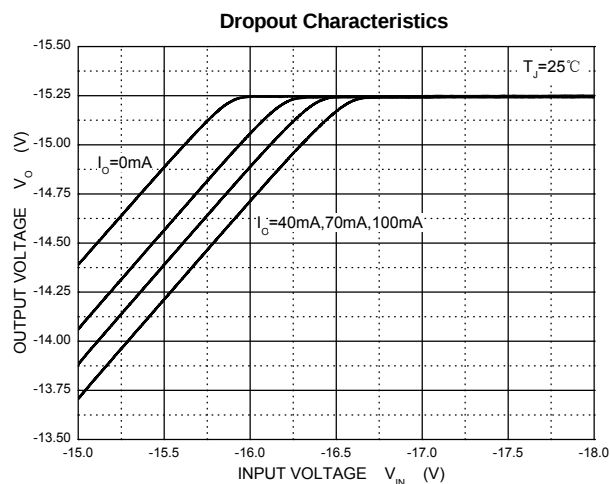
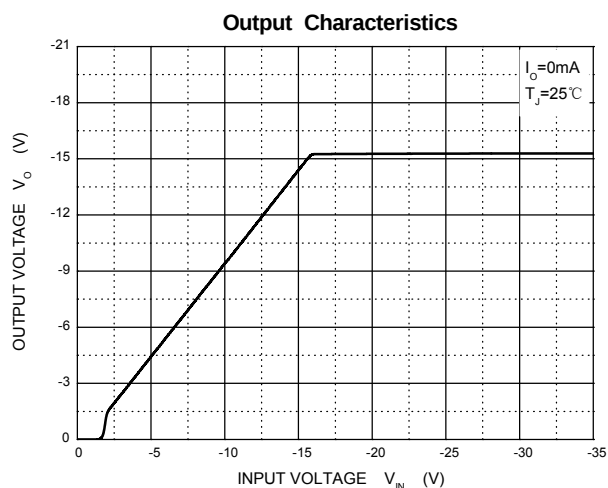
* Pulse test.

TYPICAL APPLICATION

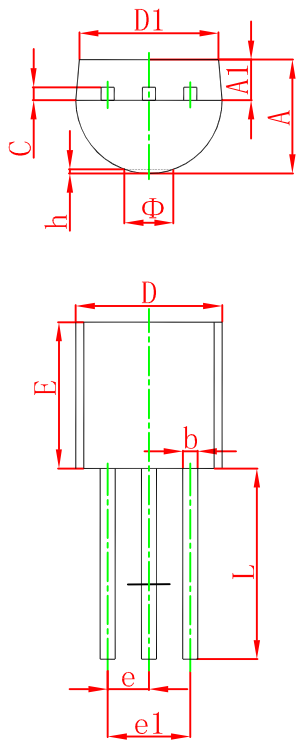


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics

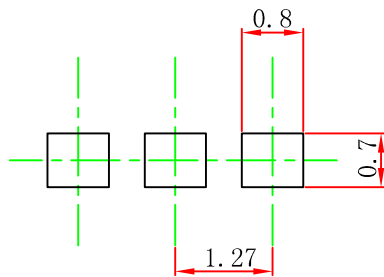


TO-92 Package Outline Dimensions



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	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92 Suggested Pad Layout



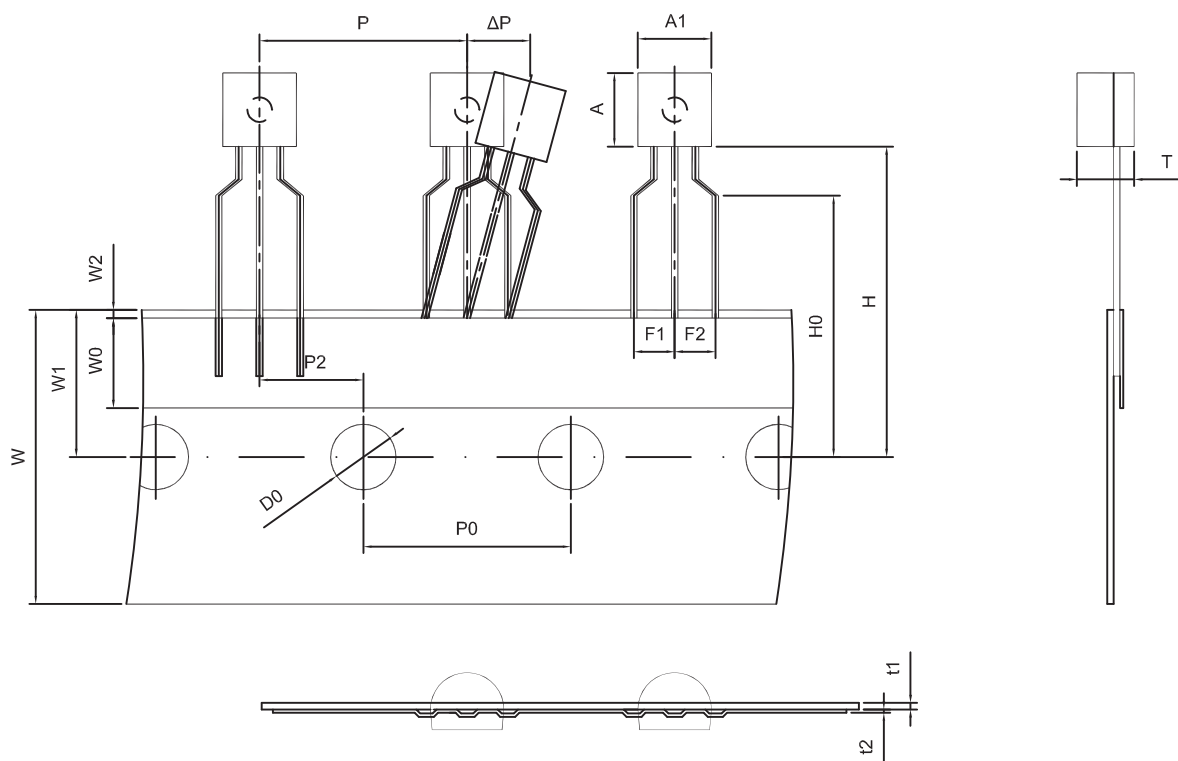
Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

NOTICE

JCET reserve the right to make modifications,enhancements, improvements, corrections or other changes without further notice to any product herein.JCET does not assume any liability arising out of the application or use of any product described herein.

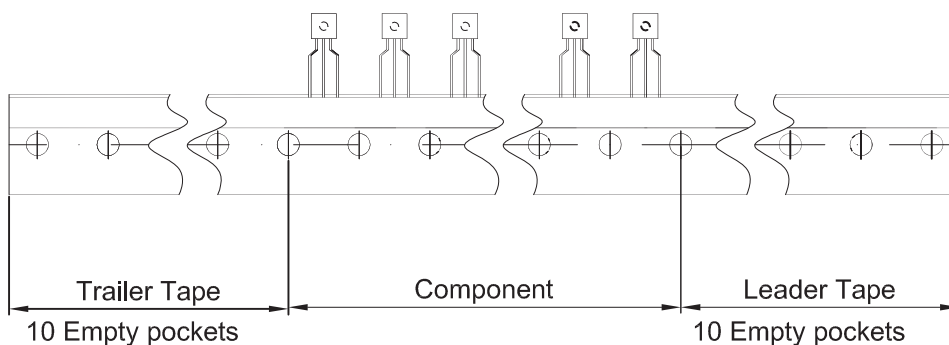
TO-92 PACKAGE TAPEING DIMENSION

TO-92 PACKAGE TAPEING DIMENSION



Dimiensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
4.5	4.5	3.5	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0 MAX.	19.0	16.0	4.0	0.4	0.2	0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000 pcs	333×162×43	20,000 pcs	350×340×250