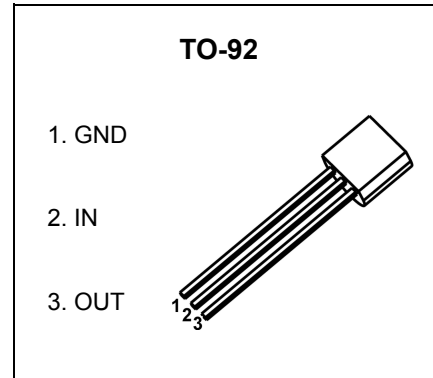


**TO-92 D`UghjWEncapsulate Voltage Regulators**

**CJ79L12** Three-terminal negative voltage regulator

**FEATURES**

- Maximum output current  
 $I_{OM}: 0.1A$
- Output voltage  
 $V_o: -1.2V$
- Continuous total dissipation  
 $P_D: 0.625W (T_a = 25^\circ C)$



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

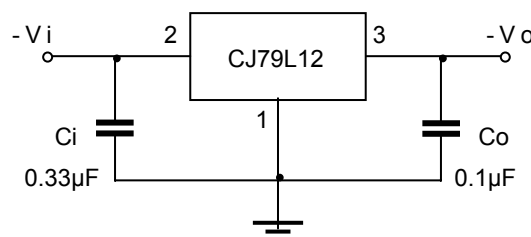
Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	-35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	200	$^\circ C/W$
Operating Junction Temperature Range	$T_{OPR}$	0~+150	$^\circ C$
Storage Temperature Range	$T_{STG}$	-65~+150	$^\circ C$

**ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ( $V_i = -19V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$ , unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	$V_o$	$25^\circ C$	-11.52	-12	-12.48	V	
		$-14.5V \leq V_i \leq -27V, I_o = 1mA \sim 40mA$	0-125 $^\circ C$	-11.4	-12	-12.6	V
		$I_o = 1mA \sim 70mA$		-11.4	-12	-12.6	V
Load Regulation	$\Delta V_o$	$I_o = 1mA \sim 100mA$	$25^\circ C$	24	100	mV	
		$I_o = 1mA \sim 40mA$	$25^\circ C$	15	50	mV	
Line Regulation	$\Delta V_o$	$-14.5V \leq V_i \leq -27V$	$25^\circ C$	50	250	mV	
		$-16V \leq V_i \leq -27V$	$25^\circ C$	40	200	mV	
Quiescent Current	$I_q$	$25^\circ C$			6.5	mA	
Quiescent Current Change	$\Delta I_q$	$-16V \leq V_i \leq -27V$	0-125 $^\circ C$		1.5	mA	
	$\Delta I_q$	$1mA \leq I_o \leq 40mA$	0-125 $^\circ C$		0.1	mA	
Output Noise Voltage	$V_N$	10Hz $\leq f \leq$ 100KHz	$25^\circ C$	80		$\mu V/V_o$	
Ripple Rejection	RR	$-15V \leq V_i \leq -25V, f = 120Hz$	0-125 $^\circ C$	37	42	dB	
Dropout Voltage	$V_d$	$25^\circ C$		1.7		V	

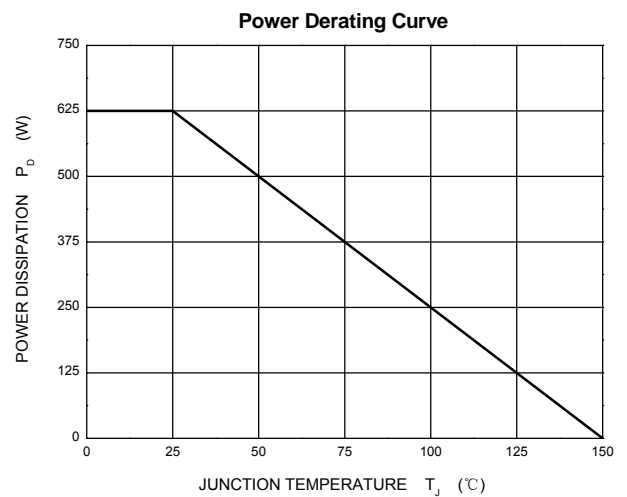
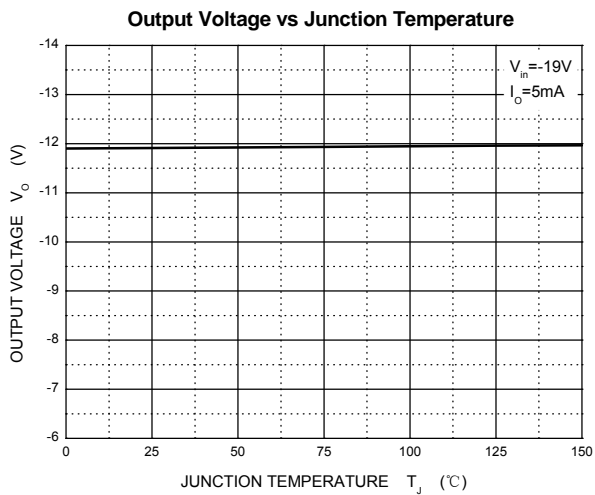
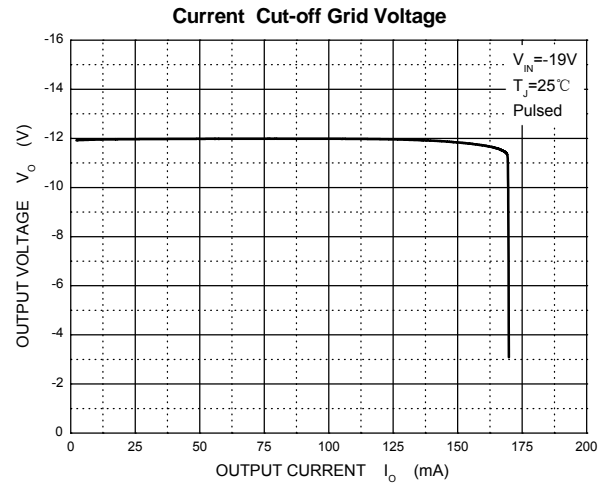
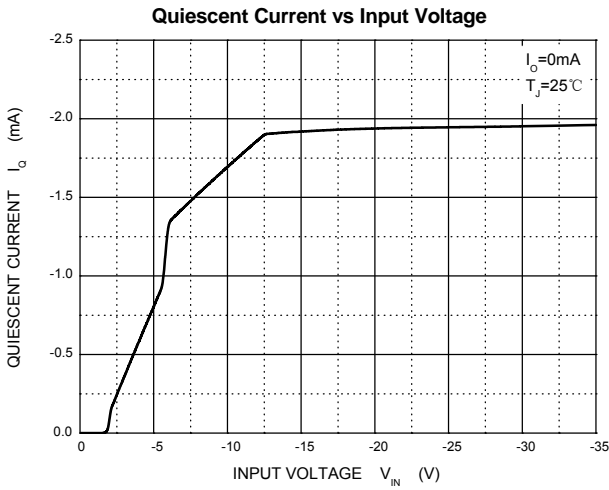
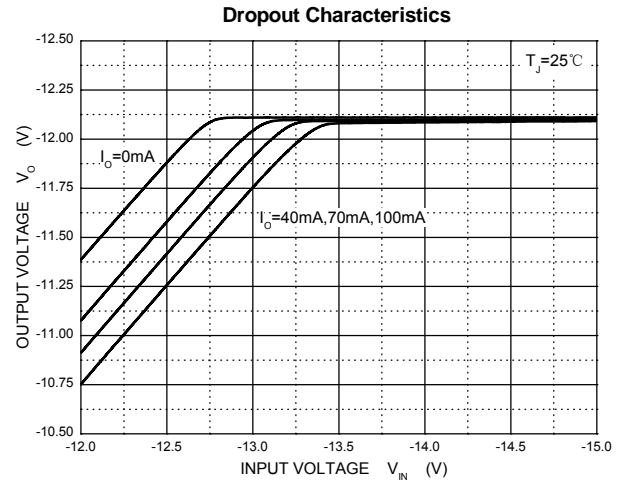
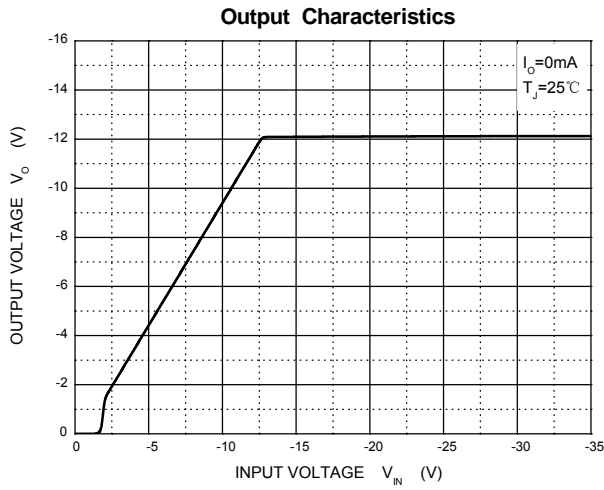
\* Pulse test.

**TYPICAL APPLICATION**

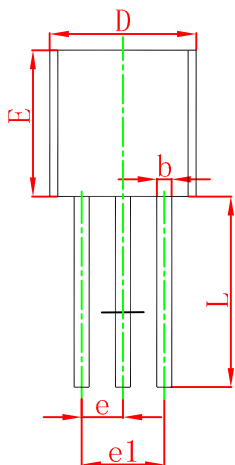
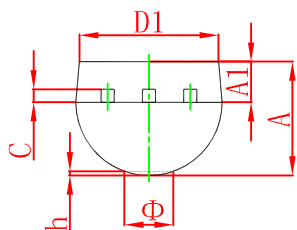


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

# Typical Characteristics

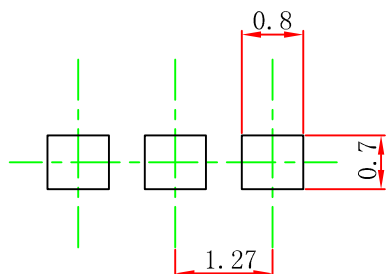


## TO-92 Package Outline Dimensions



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:

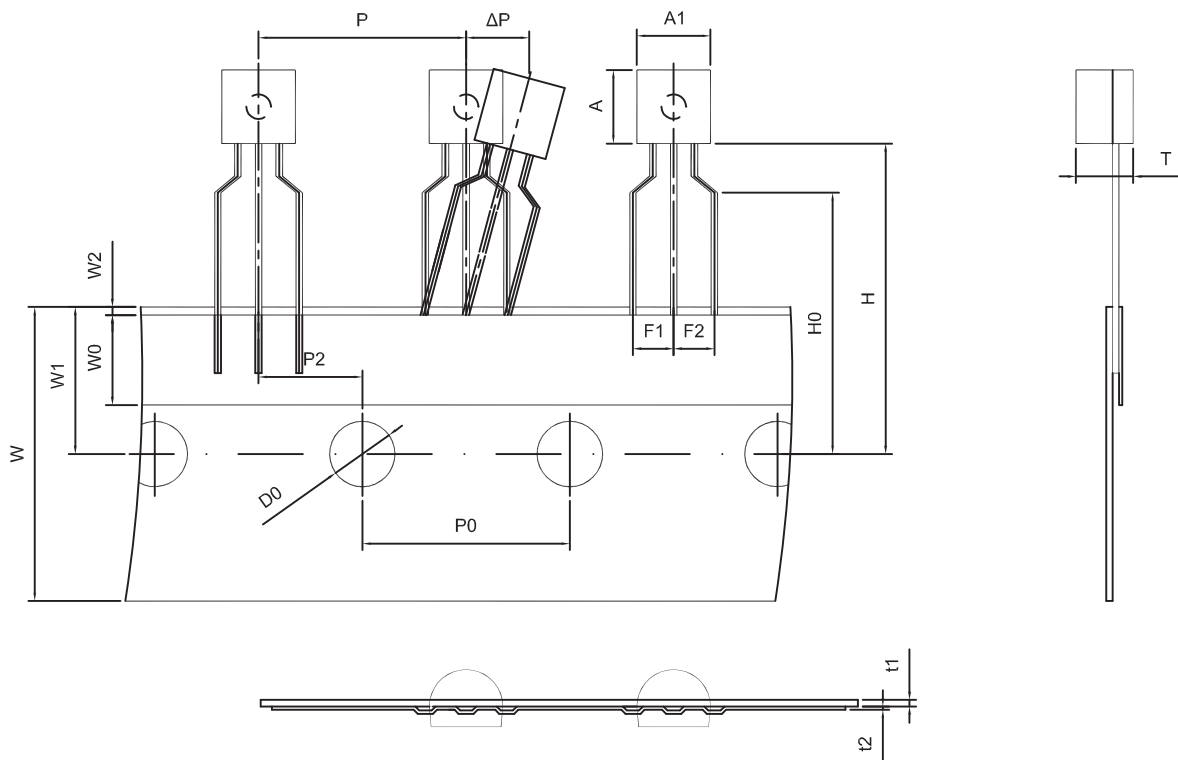
1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.

### NOTICE

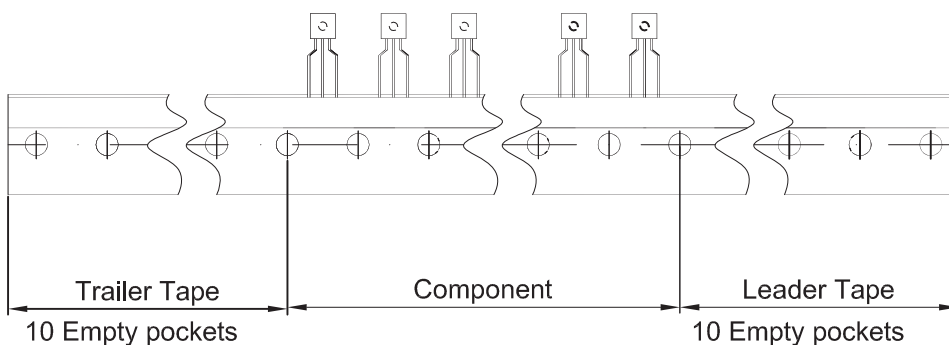
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# TO-92 PACKAGE TAPEING DIMENSION

## TO-92 PACKAGE TAPEING DIMENSION



Dimensions 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