



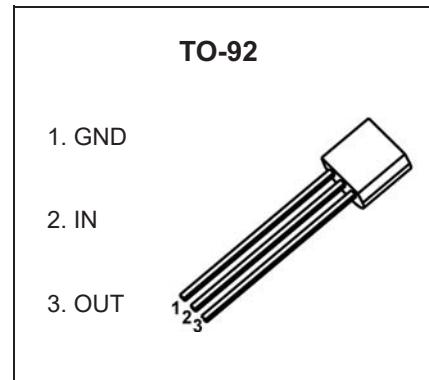
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

## TO-92 Plastic-Encapsulate Voltage Regulator

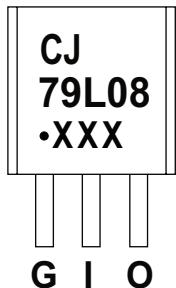
**CJ79L08** Three-terminal negative voltage regulator

### FEATURES

- Maximum output current  
 $I_{OM}$ : 0.1A
- Output voltage  
 $V_o$ : - 8 V
- Continuous total dissipation  
 $P_D$ : 0.625 W ( $T_a = 25^\circ C$ )



### MARKING



CJ79L08=Device code

Solid dot=Green molding compound device,  
if none, the normal device

XXX=Code

### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
CJ79L08	TO-92	Bulk	1000pcs/Bag
CJ79L08-TA	TO-92	Tape	2000pcs/Box

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

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	-30	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	200	°C/W
Operating Junction Temperature Range	$T_{OPR}$	-40~+125	°C
Storage Temperature Range	$T_{STG}$	-65~+150	°C

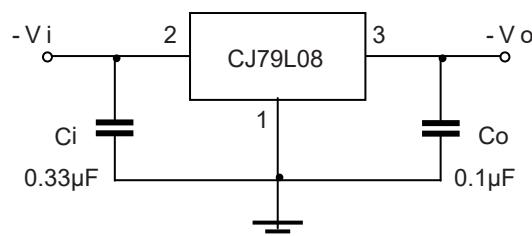
## ELECTRICAL CHARACTERISTICS

$T_a=25^\circ C$  unless otherwise specified ( $V_i=-14V$ ,  $I_o=40mA$ ,  $C_i=0.33\mu F$ ,  $C_o=0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	$V_o$	$T_J=25^\circ C$	-7.76	-8.0	-8.24	V
		-10.5VKV K-23V, $I_o=1mA \sim 40mA$	-7.6	-8.0	-8.4	V
		$I_o=1mA \sim 70mA$	-7.6	-8.0	-8.4	V
Load Regulation	$\nabla V_o$	$I_o=1mA \sim 100mA, T_J=25^\circ C$		30	100	mV
		$I_o=1mA \sim 40mA, T_J=25^\circ C$		15	50	mV
Line Regulation	$\nabla V_o$	-10.5VKV K-23V, $T_J=25^\circ C$		42	200	mV
		-11VKV K-23V, $T_J=25^\circ C$		36	150	mV
Quiescent Current	$I_q$	$T_J=25^\circ C$		4	6	mA
Quiescent Current Change	$\nabla I_q$	-11VKV K-23V			1.5	mA
	$\nabla I_q$	1mA $\Delta I_o$ K40mA			0.1	mA
Output Noise Voltage	$V_N$	10HzKfK100KHz, $T_J=25^\circ C$		54		$\mu V/V_o$
Ripple Rejection	RR	-11VKV K-21V, $f=120Hz$	37	46		dB
Dropout Voltage	$V_d$	$T_J=25^\circ C$		1.7		V

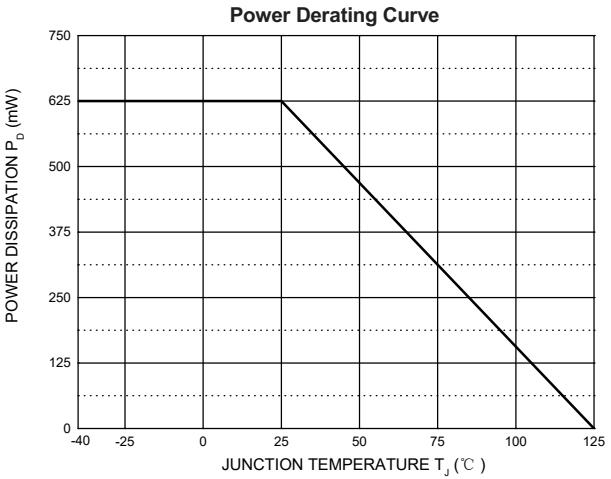
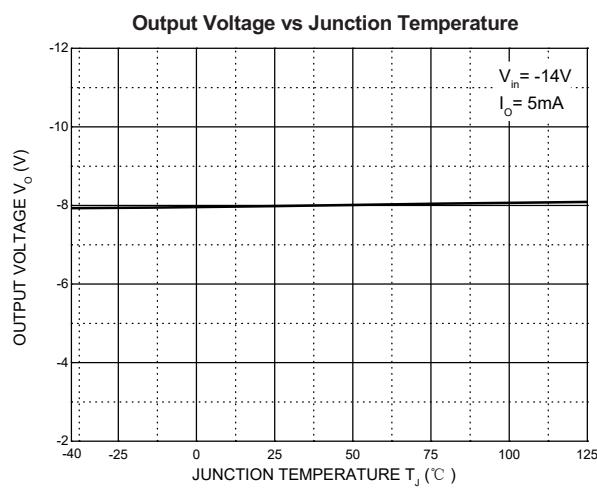
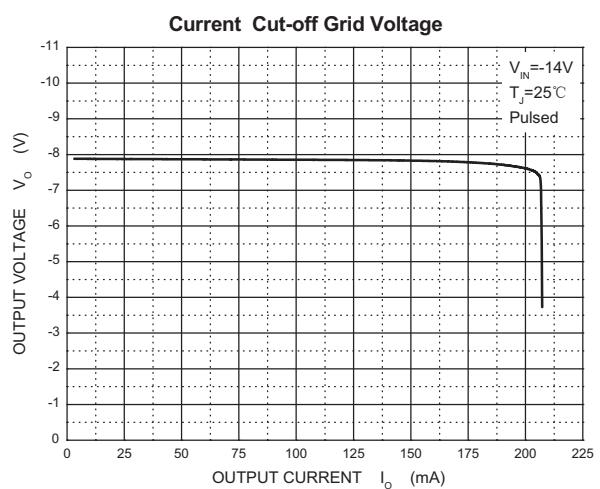
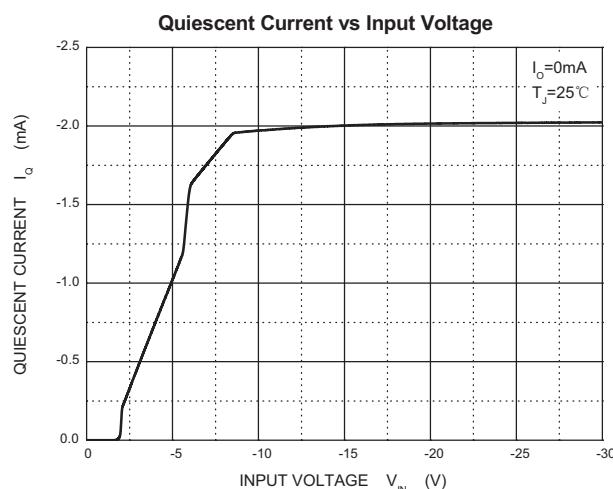
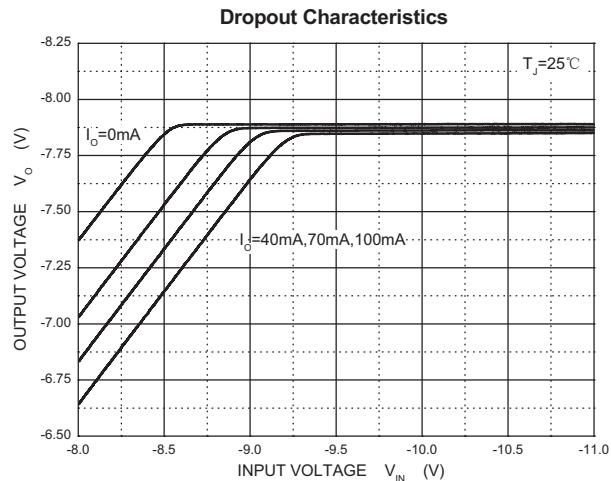
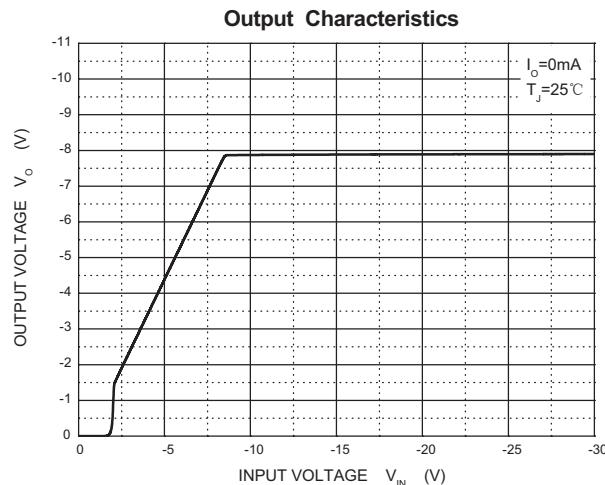
\* Pulse test.

### TYPICAL APPLICATION



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

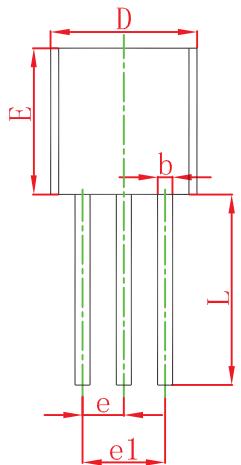
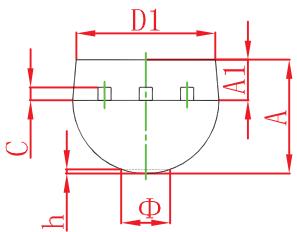
## Typical Characteristics



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## TO-92 Package Outline Dimensions

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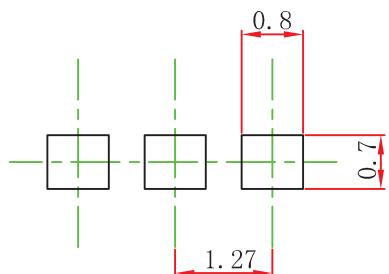


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100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

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## TO-92 Suggested Pad Layout

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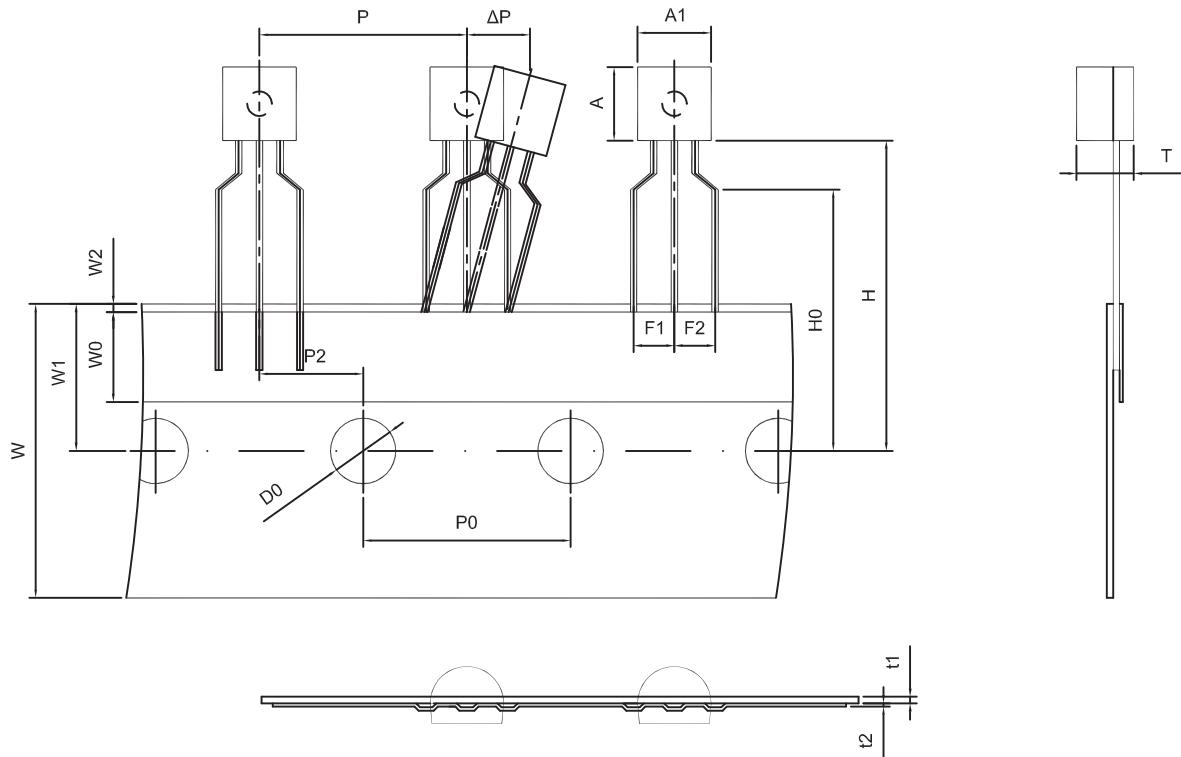


Note:

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

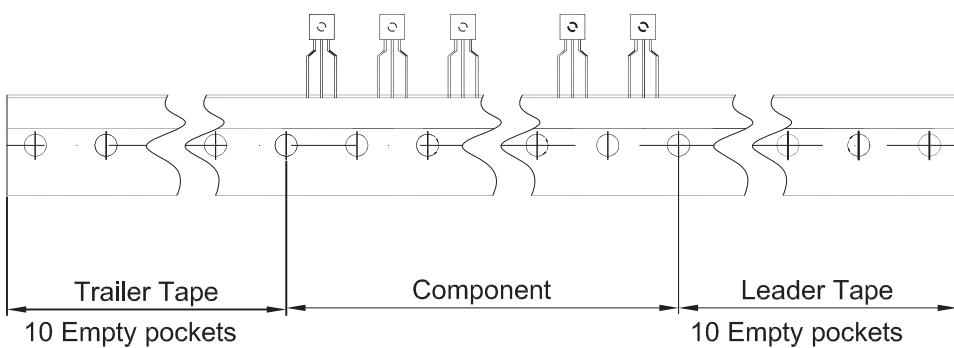
## TO-92 PACKAGE TAPEING DIMENSION

### 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

## **DISCLAIMER**

### **IMPORTANT NOTICE, PLEASE READ CAREFULLY**

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