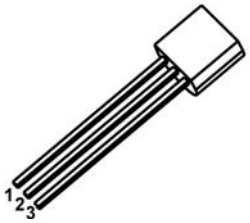
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92 Plastic-Encapsulate Voltage Regulators

CJ79L08 Three-terminal negative voltage regulator

TO-92

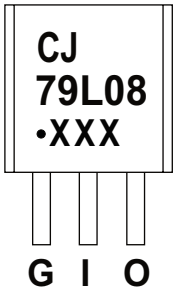
1. GND
2. IN
3. OUT



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 ℃)

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	℃/W
Operating Junction Temperature Range	T_{OPR}	0~+150	℃
Storage Temperature Range	T_{STG}	-65~+150	℃

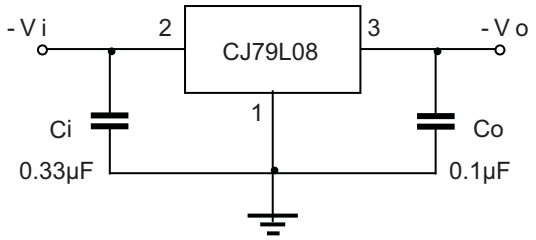
ELECTRICAL CHARACTERISTICS

T_a=25℃ unless otherwise specified (VI=-14V, Io=40mA, Ci=0.33μF,Co=0.1μF,unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25℃	-7.68	-8.0	-8.32	V
		-10.5V≤V_I≤-23V, Io=1mA~40mA	0-125℃	-7.6	-8.0	-8.4	V
		Io=1mA~70mA		-7.6	-8.0	-8.4	V
Load Regulation	ΔVo	Io=1mA~100mA	25℃		30	100	mV
		Io=1mA~40mA	25℃		15	50	mV
Line Regulation	ΔVo	-10.5V≤V_I≤-23V	25℃		42	200	mV
		-11V≤V_I≤-23V	25℃		36	150	mV
Quiescent Current	Iq		25℃		4	6	mA
Quiescent Current Change	ΔIq	-11V≤V_I≤-23V	0-125℃			1.5	mA
	ΔIq	1mA≤I_O≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		54		μV/Vo
Ripple Rejection	RR	-11V≤V_I≤-21V,f=120Hz	0-125℃	37	46		dB
Dropout Voltage	Vd		25℃		1.7		V

* Pulse test.

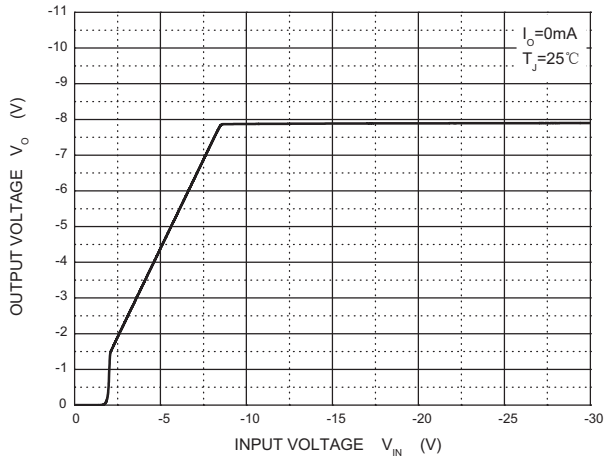
TYPICAL APPLICATION



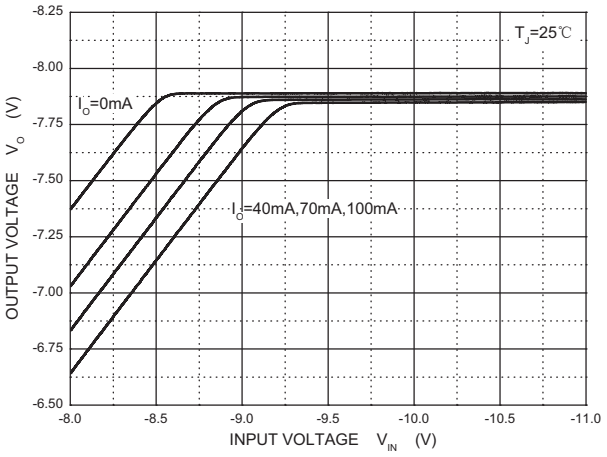
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics

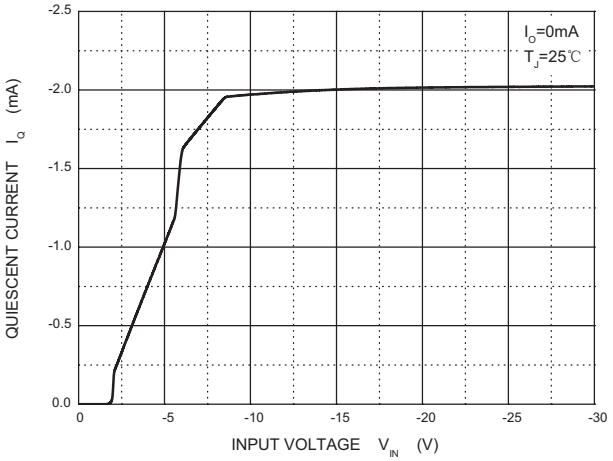
Output Characteristics



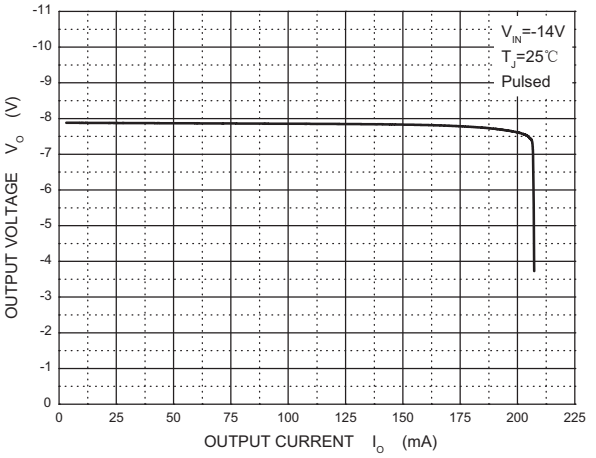
Dropout Characteristics



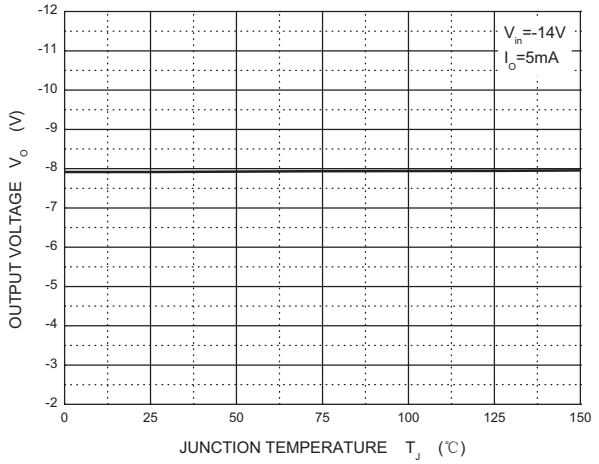
Quiescent Current vs Input Voltage



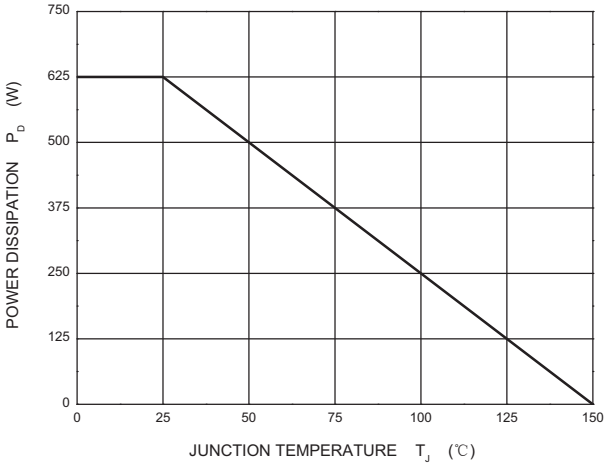
Current Cut-off Grid Voltage



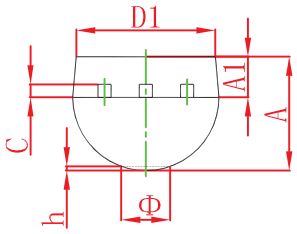
Output Voltage vs Junction Temperature

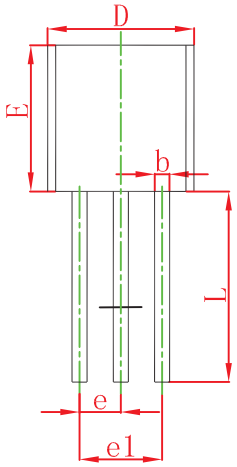


Power Derating Curve



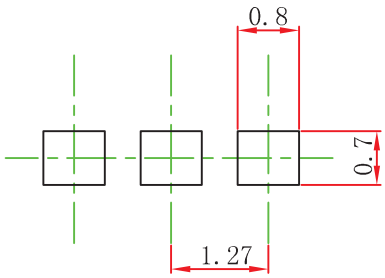
TO-92 Package Outline Dimensions





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

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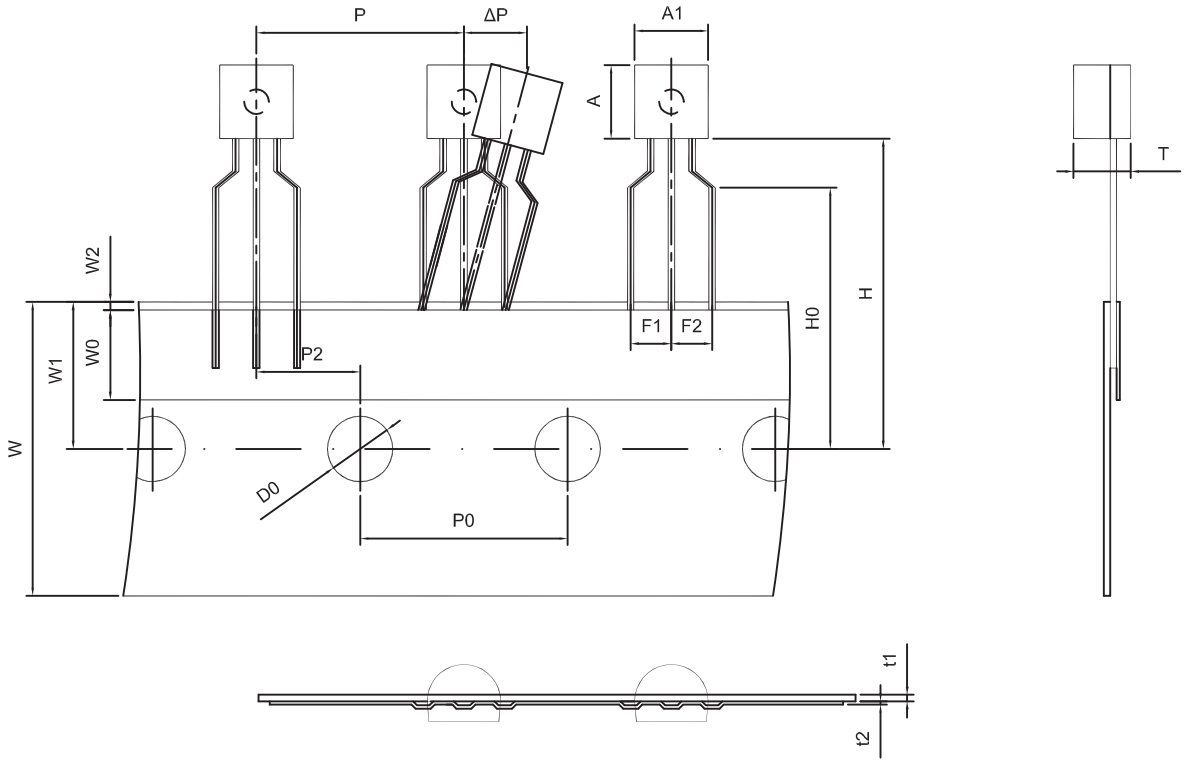
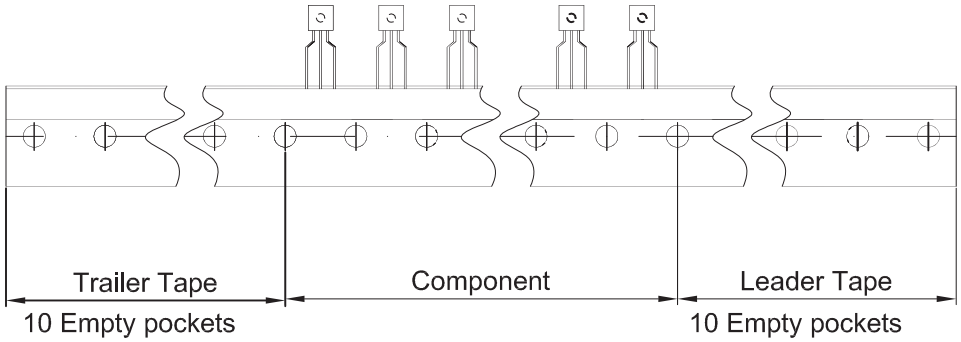
TO-92 PACKAGE TAPEING DIMENSION



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