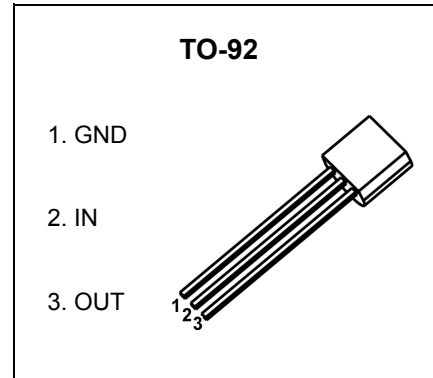


**TO-92 D`UghjWEncapsulate Voltage Regulators**

**CJ79L05** Three-terminal negative voltage regulator

**FEATURES**

- Maximum output current  
I<sub>OM</sub>: 0.1A
- Output voltage  
V<sub>o</sub>: -5 V
- Continuous total dissipation  
P<sub>D</sub>:0.625 W (T<sub>a</sub>= 25 °C)



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

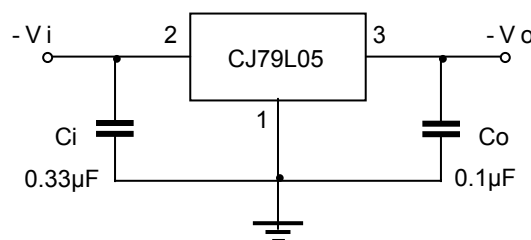
Parameter	Symbol	Value	Unit
Input Voltage	V <sub>i</sub>	-30	V
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	200	°C/W
Operating Junction Temperature Range	T <sub>OPR</sub>	0~+150	°C
Storage Temperature Range	T <sub>STG</sub>	-65~+150	°C

**ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (V<sub>i</sub>=-10V,I<sub>o</sub>=40mA,C<sub>i</sub>=0.33 μF,C<sub>o</sub>=0.1μF, unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V <sub>o</sub>	25°C	-4.8	-5.0	-5.2	V
		-7V≤V <sub>i</sub> ≤-20V, I <sub>o</sub> =1mA~40mA	-4.75	-5.0	-5.25	V
		I <sub>o</sub> =1mA~70mA	-4.75	-5.0	-5.25	V
Load Regulation	ΔV <sub>o</sub>	I <sub>o</sub> =1mA~100mA	25°C	20	60	mV
		I <sub>o</sub> =1mA~40mA	25°C	10	30	mV
Line Regulation	ΔV <sub>o</sub>	-7V≤V <sub>i</sub> ≤-20V	25°C	15	150	mV
		-8V≤V <sub>i</sub> ≤-20V	25°C	12	100	mV
Quiescent Current	I <sub>q</sub>	25°C			6	mA
Quiescent Current Change	ΔI <sub>q</sub>	-8V≤V <sub>i</sub> ≤-20V	0-125°C		1.5	mA
	ΔI <sub>q</sub>	1mA≤V <sub>i</sub> ≤40mA	0-125°C		0.1	mA
Output Noise Voltage	V <sub>N</sub>	10Hz≤f≤100KHz	25°C	40		μV/V <sub>o</sub>
Ripple Rejection	RR	-8V≤V <sub>i</sub> ≤-18V,f=120Hz	0-125°C	41	49	dB
Dropout Voltage	V <sub>d</sub>	25°C		1.7		V

\* Pulse test.

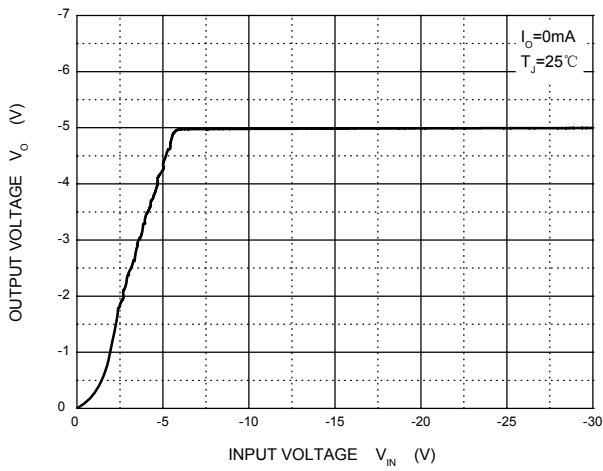
**TYPICAL APPLICATION**



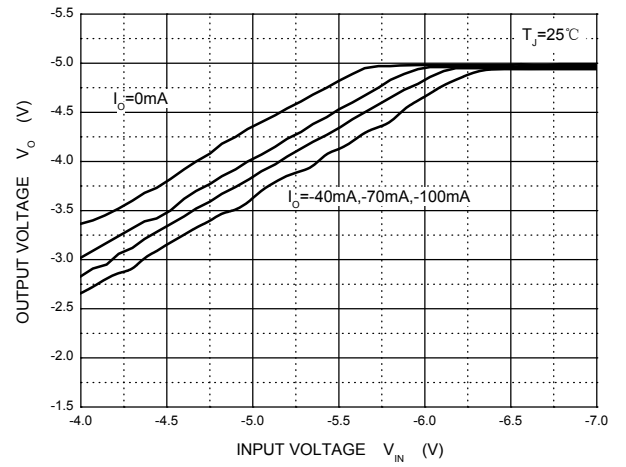
Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

# Typical Characteristics

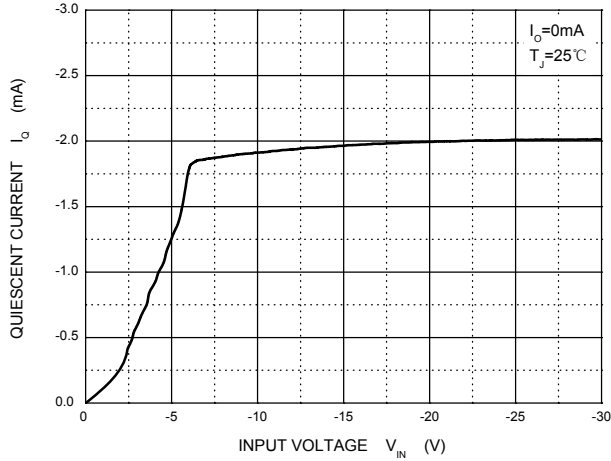
**Output Characteristics**



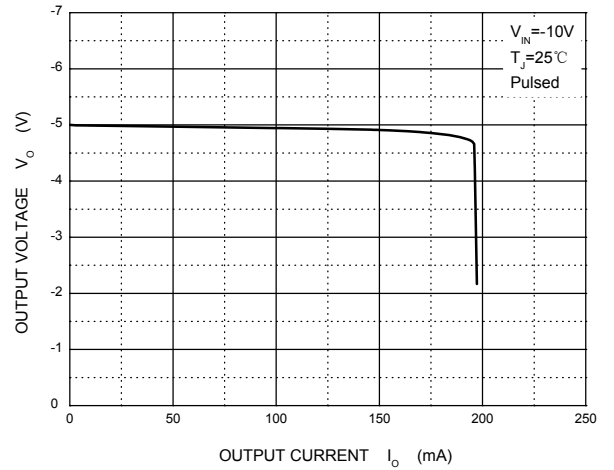
**Dropout Characteristics**



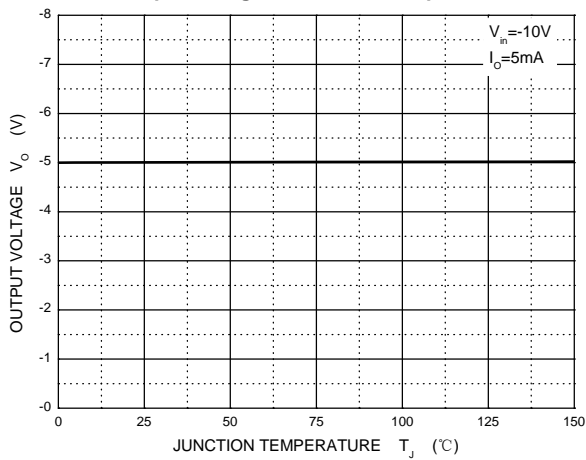
**Quiescent Current vs Input Voltage**



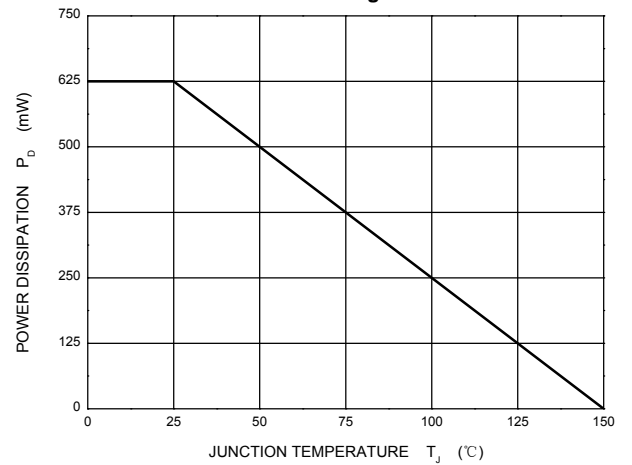
**Current Cut-off Grid Voltage**



**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	4.300	4.700	0.169	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:

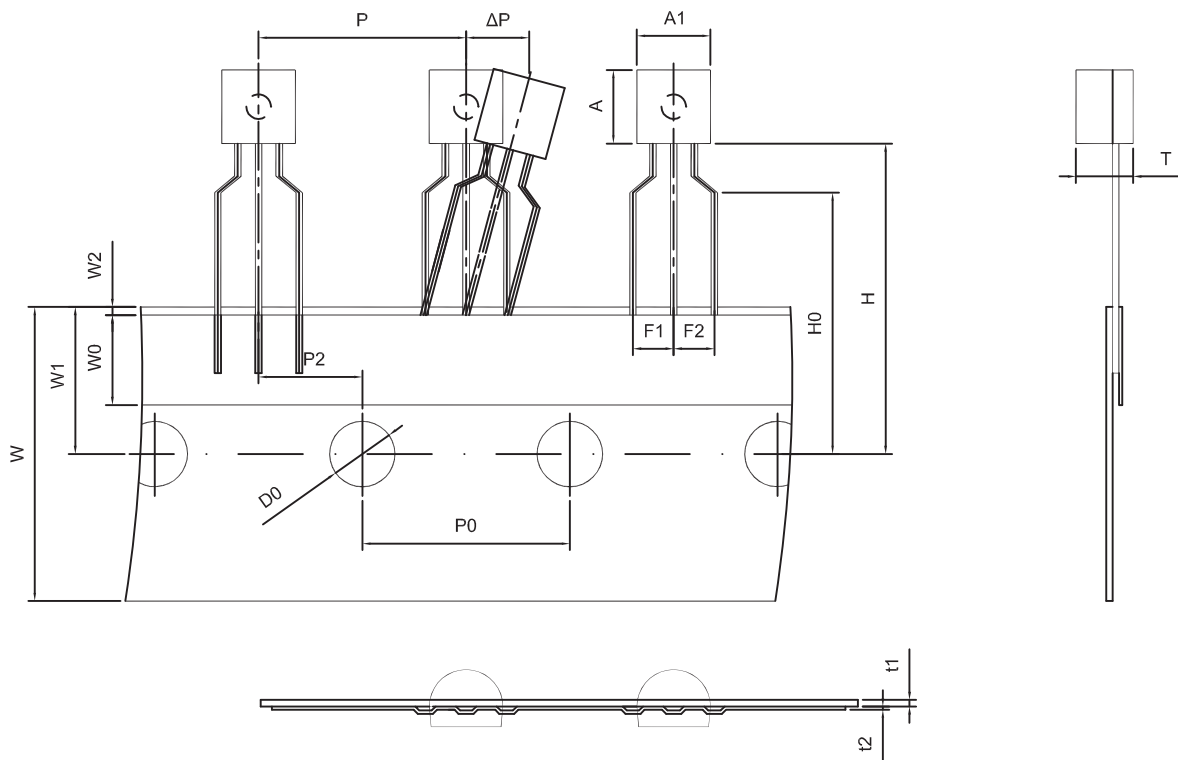
1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.

### NOTICE

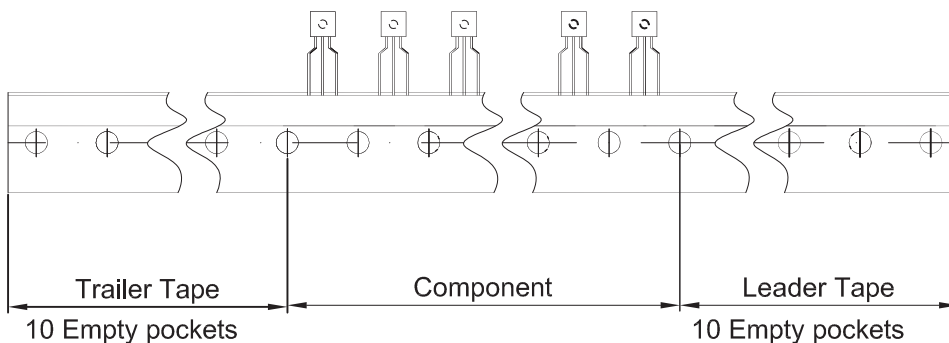
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# TO-92 PACKAGE TAPEING DIMENSION

## TO-92 PACKAGE TAPEING DIMENSION



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

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