TO-92 Plastic-Encapsulate Voltage Regulator

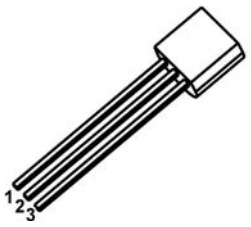
CJ79L05 Three-terminal negative voltage regulator

FEATURES

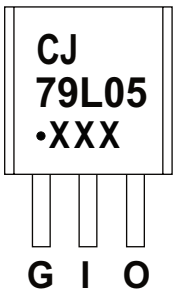
- Maximum output current
  $I_{OM:}$ 0.1A
- Output voltage
  V_o: -5 V
- Continuous total dissipation
  P_D:0.625 W (T_a= 25 ℃)

TO-92

1. GND
2. IN
3. OUT



MARKING



CJ79L05=Device code

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

XXX=Code

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
CJ79L05	TO-92	Bulk	1000pcs/Bag
CJ79L05-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}	-40~+125	℃
Storage Temperature Range	T_{STG}	-65~+150	℃

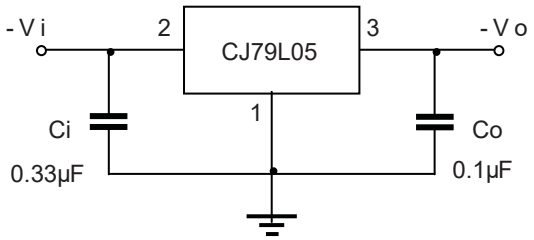
ELECTRICAL CHARACTERISTICS

T_a=25℃ unless otherwise specified (**V_I=-10V,Io=40mA,Ci=0.33 μF,Co=0.1μF, unless otherwise specified**)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	Vo	T_J=25℃	-4.85	-5.0	-5.15	V
		-7V≤V_I≤-20V, Io=1mA~40mA	-4.75	-5.0	-5.25	V
		Io=1mA~70mA	-4.75	-5.0	-5.25	V
Load Regulation	ΔVo	Io=1mA~100mA ,T_J=25℃		20	60	mV
		Io=1mA~40mA ,T_J=25℃		10	30	mV
Line Regulation	ΔVo	-7V≤V_I≤-20V ,T_J=25℃		15	150	mV
		-8V≤V_I≤-20V ,T_J=25℃		12	100	mV
Quiescent Current	Iq	T_J=25℃			6	mA
Quiescent Current Change	ΔIq	-8V≤V_I≤-20V			1.5	mA
	ΔIq	1mA≤V_I≤40mA			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz ,T_J=25℃		40		μV/Vo
Ripple Rejection	RR	-8V≤V_I≤-18V,f=120Hz	41	49		dB
Dropout Voltage	Vd	T_J=25℃		1.7		V

* Pulse test.

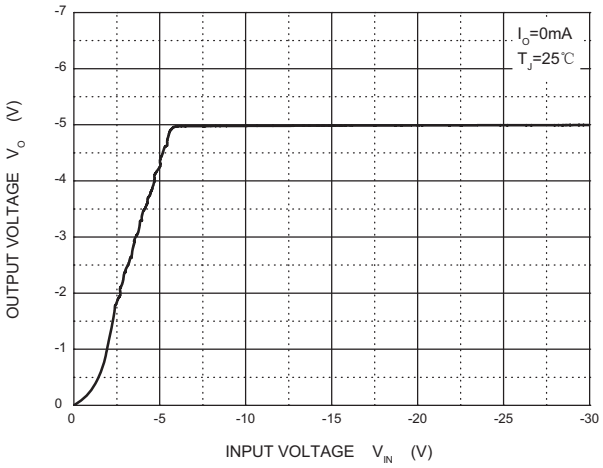
TYPICAL APPLICATION



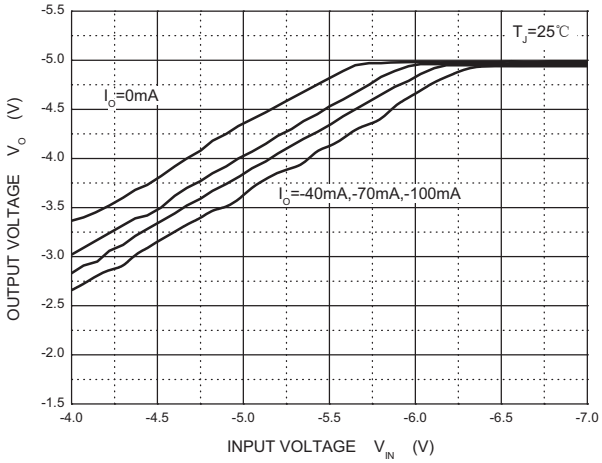
Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

Typical Characteristics

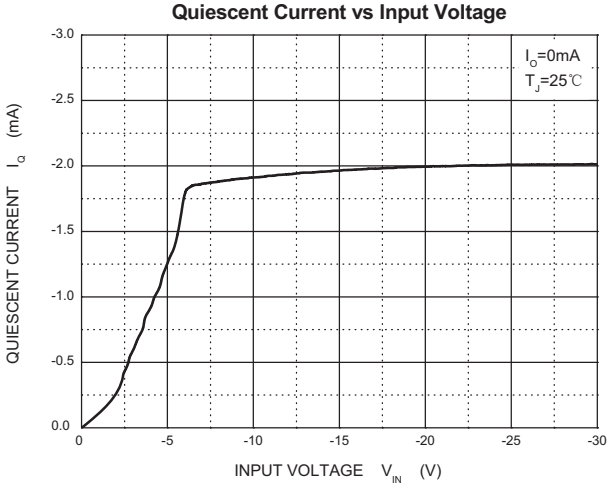
Output Characteristics



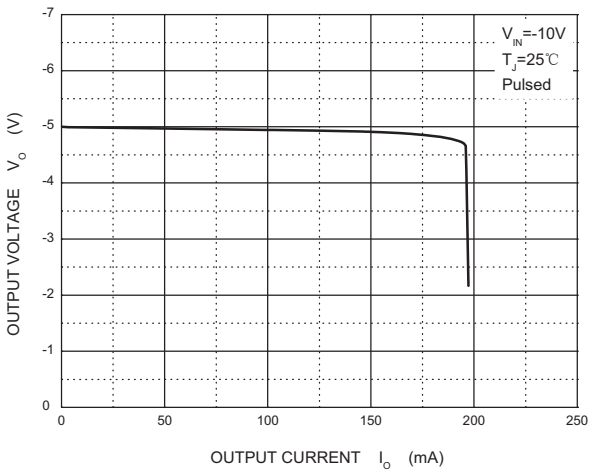
Dropout Characteristics



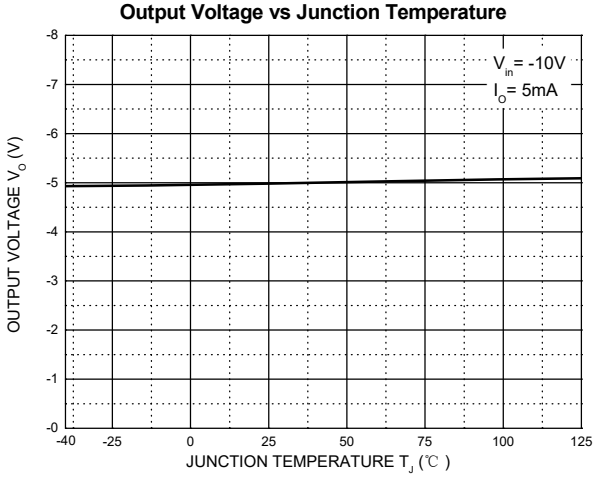
Quiescent Current vs Input Voltage



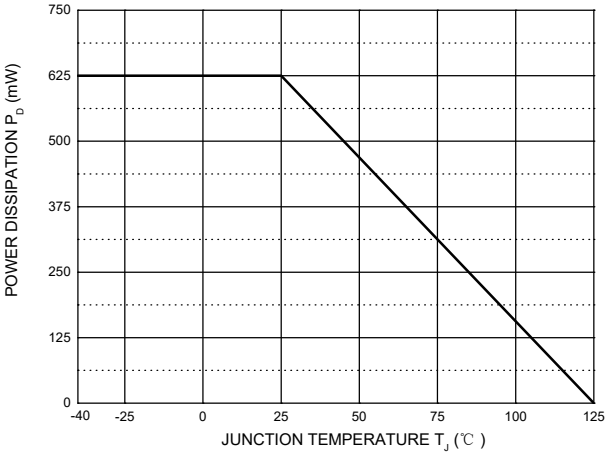
Current Cut-off Grid Voltage



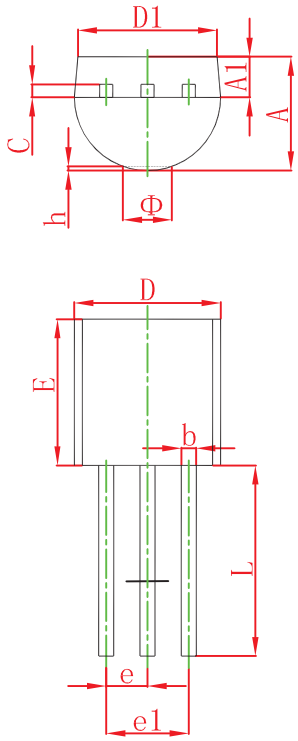
Output Voltage vs Junction Temperature



Power Derating Curve

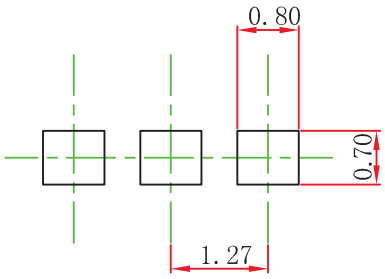


TO-92 Package Outline Dimensions



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	4.300	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
K		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92 Suggested Pad Layout

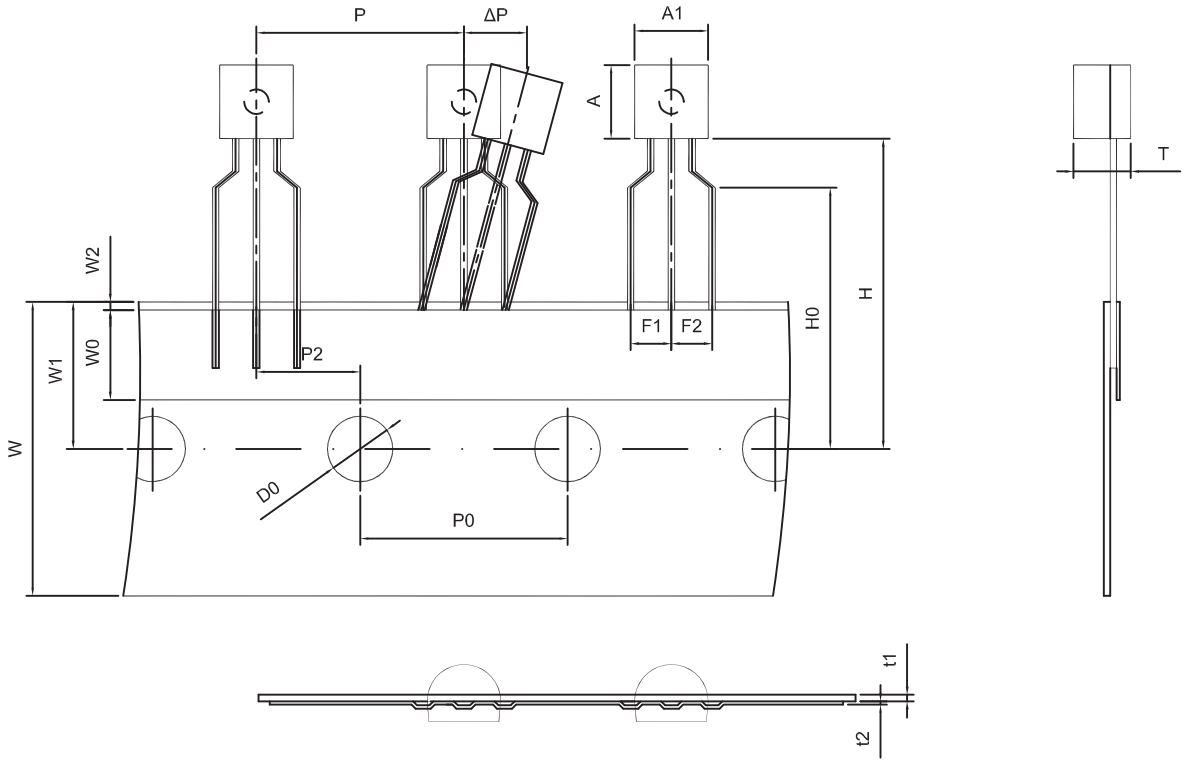


Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

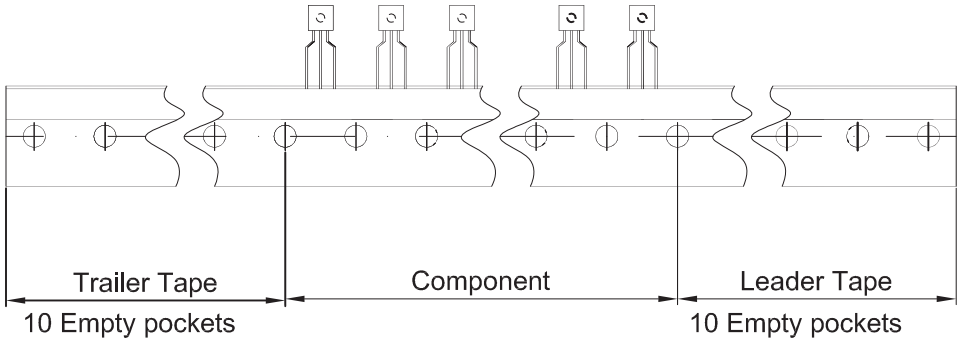
NOTICE

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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