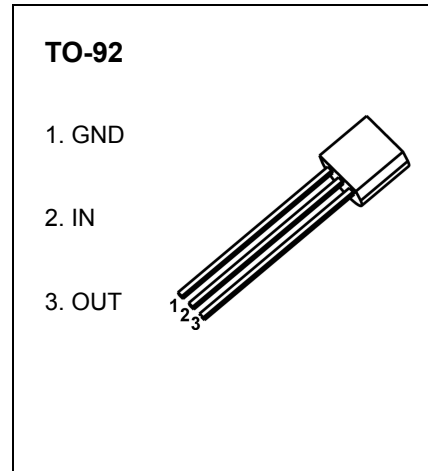


**TO-92 Encapsulate Three-terminal Voltage Regulators**

**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



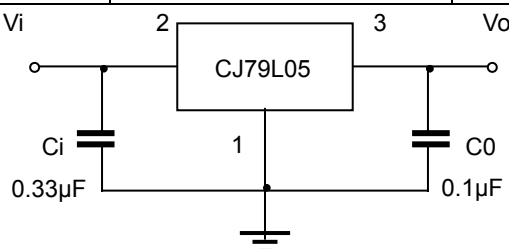
**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

Parameter	Symbol	Value	Units
Input Voltage	V <sub>i</sub>	-30	V
Operating Junction Temperature Range	T <sub>OPR</sub>	0~+150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~+150	°C

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

**TYPICAL APPLICATION**



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