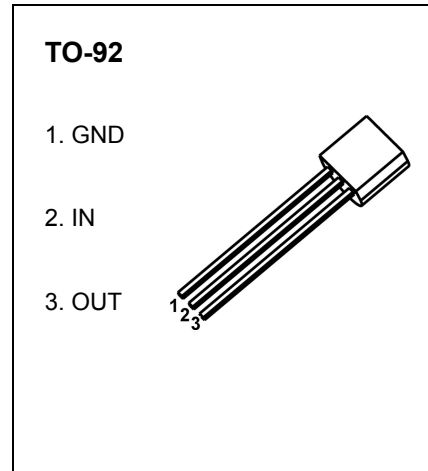


TO-92 Encapsulate Three-terminal Voltage Regulators

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



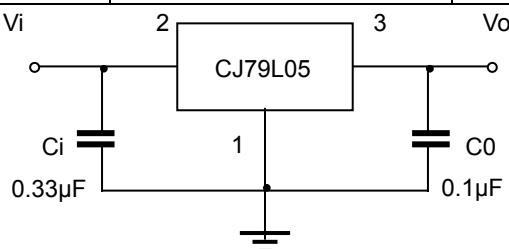
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V _i	-30	V
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (V_i = -10V, I_o = 40mA, C_i = 0.33μF, C_o = 0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V _o	25°C	-4.8	-5.0	-5.2	V	
		0-125°C	-7V ≤ V _i ≤ -20V, I _o = 1mA~40mA	-4.75	-5.0	-5.25	V
			I _o = 1mA~70mA	-4.75	-5.0	-5.25	V
Load Regulation	ΔV _o	I _o = 1mA~100mA	25°C	20	60	mV	
		I _o = 1mA~40mA	25°C	10	30	mV	
Line Regulation	ΔV _o	-7V ≤ V _i ≤ -20V	25°C	15	150	mV	
		-8V ≤ V _i ≤ -20V	25°C	12	100	mV	
Quiescent Current	I _q	25°C			6	mA	
Quiescent Current Change	ΔI _q	-8V ≤ V _i ≤ -20V	0-125°C		1.5	mA	
	ΔI _q	1mA ≤ V _i ≤ 40mA	0-125°C		0.1	mA	
Output Noise Voltage	V _N	10Hz ≤ f ≤ 100KHz	25°C	40		uV	
Ripple Rejection	RR	-8V ≤ V _i ≤ -18V, f = 120Hz	0-125°C	41	49	dB	
Dropout Voltage	V _d	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.