

TO-92 Encapsulate Three-terminal Voltage Regulator

CJ79L05 Three-terminal negative voltage regulator

FEATURES

Maximum Output current
 I_{OM} : 0.1 A
 Output voltage
 V_o : -5 V
 Continuous total dissipation
 P_D : 0.625 W

TO-92

1. GND

2. IN

3. OUT



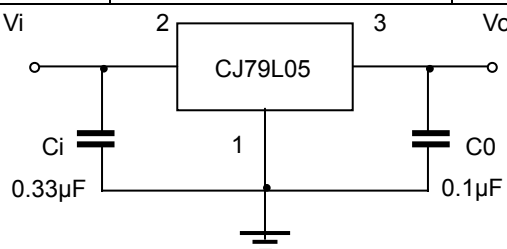
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	-4.8	-5.0	-5.2	V
		-7V ≤ V_i ≤ -20V, $I_o = 1mA \sim 40mA$	-4.75	-5.0	-5.25	V
		$I_o = 1mA \sim 70mA$	-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$		20	60	mV
		$I_o = 1mA \sim 40mA$		10	30	mV
Line regulation	ΔV_o	-7V ≤ V_i ≤ -20V		15	150	mV
		-8V ≤ V_i ≤ -20V		12	100	mV
Quiescent Current	I_q	25°C			6	mA
Quiescent Current Change	ΔI_q	-8V ≤ V_i ≤ -20V			1.5	mA
	ΔI_q	1mA ≤ V_i ≤ 40mA			0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz		40		uV
Ripple Rejection	RR	-8V ≤ V_i ≤ -18V, f = 120Hz	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.

Typical Characteristics

CJ79LXX

