



SOT-89-3L Encapsulate Three Terminal Voltage Regulators

CJ79L05 Three-terminal negative voltage regulator

FEATURES

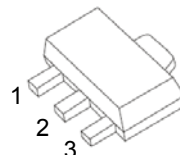
- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -5V$
- Continuous total dissipation
 $P_D: 0.5W$

SOT-89-3L

1. GND

2. IN

3. OUT



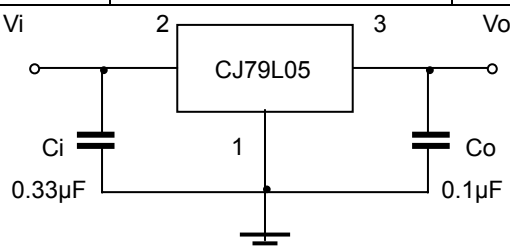
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i = -10V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, 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	$I_o = 1mA \sim 100mA$	25°C	20	60	mV
		$I_o = 1mA \sim 40mA$	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	$1mA \leq V_i \leq 40mA$	0-125°C		0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C	40		μV
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.