

SOT-23-3L Encapsulate Three terminal voltage regulators

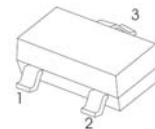
CJ79L12 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 I_{OM} : 0.1 A
- Output voltage
 V_o : -12 V
- Continuous total dissipation
 P_D : 0.35 W

SOT-23-3L

1. GND
2. OUT
3. IN



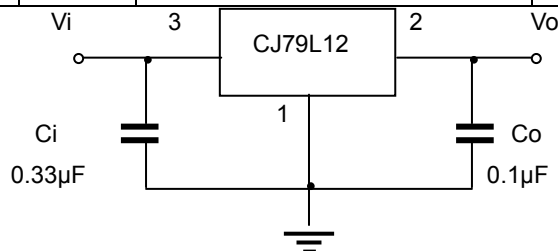
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_I	-35	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 ($V_I=19V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	25°C	-11.5	-12	-12.5	V
		-14.5V ≤ V_I ≤ -27V, $I_o=1mA\sim 40mA$	-11.4	-12	-12.6	V
		0-125°C $I_o=1mA\sim 70mA$	-11.4	-12	-12.6	V
Load Regulation	ΔV_o	$I_o=1mA\sim 100mA$ 25°C		24	100	mV
		$I_o=1mA\sim 40mA$ 25°C		15	50	mV
Line Regulation	ΔV_o	-14.5V ≤ V_I ≤ -27V 25°C		50	250	mV
		-16V ≤ V_I ≤ -27V 25°C		40	200	mV
Quiescent Current	I_q	25°C			6.5	mA
Quiescent Current Change	ΔI_q	-16V ≤ V_I ≤ -27V 0-125°C			1.5	mA
	ΔI_q	1mA ≤ I_o ≤ 40mA 0-125°C			0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz 25°C		80		μV
Ripple Rejection	RR	-15V ≤ V_I ≤ -25V, f=120Hz 0-125°C	37	42		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.