



SOT-89 Encapsulate Three Terminal Voltage Regulator

CJ79L12 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

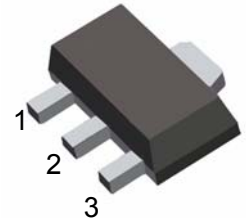
V_o : -12 V

SOT-89

1. GND

2. IN

3. OUT



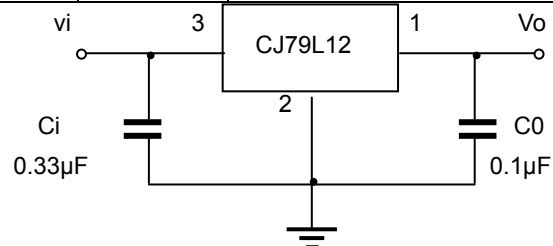
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_I	-35	V
Operating Junction Temperature Range	T_{OPR}	0~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS($V_I=-19V, I_o=40mA, 0^{\circ}C < T_j < 125^{\circ}C, C_1=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^{\circ}C$	-11.5	-12	-12.5	V
		$-14.5V \leq V_I \leq -27V, I_o=1mA \sim 40mA$	-11.4	-12	-12.6	V
		$-14.5V \leq V_I \leq -27V, I_o=1mA \sim 70mA$	-11.4	-12	-12.6	V (note)
Load Regulation	ΔV_o	$T_j=25^{\circ}C, I_o=1mA \sim 100mA$		22	100	mV
		$T_j=25^{\circ}C, I_o=1mA \sim 40mA$		13	50	mV
Line regulation	ΔV_o	$-14.5V \leq V_I \leq -27V, T_j=25^{\circ}C$		55	250	mV
		$-16V \leq V_I \leq -27V, T_j=25^{\circ}C$		49	200	mV
Quiescent Current	I_q			4.3	6.5	mA
Quiescent Current Change	ΔI_q	$-16V \leq V_I \leq -27V$			1.5	mA
	ΔI_q	$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		80		uV
Ripple Rejection	RR	$-15V \leq V_I \leq -25V, f=120Hz, T_j=25^{\circ}C$	37	42		dB
Dropout Voltage	V_d	$T_j=25^{\circ}C$		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.