



SOT-89 Encapsulate Three Terminal Voltage Regulator

CJ79L06 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.1 A

Output voltage

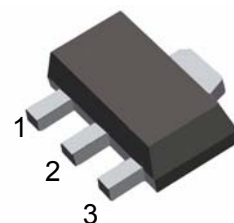
V_o : -6 V

SOT-89

1. GND

2. IN

3. OUT



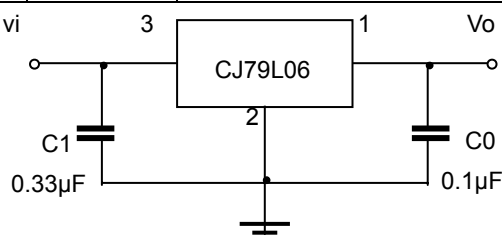
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS ($V_i = -11V, I_o = 40mA, 0^\circ C < T_j < 125^\circ C, C_1 = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j = 25^\circ C$	-5.75	-6.0	-6.25	V
		$-8V \leq V_i \leq -20V, I_o = 1mA \sim 40mA$	-5.7	-6.0	-6.3	V
		$-8V \leq V_i \leq V_{MAX}, I_o = 1mA \sim 70mA$	-5.7	-6.0	-6.3	V (note)
Load Regulation	ΔV_o	$T_j = 25^\circ C, I_o = 1mA \sim 100mA$		21	80	mV
		$T_j = 25^\circ C, I_o = 1mA \sim 40mA$		11	40	mV
Line regulation	ΔV_o	$-8V \leq V_i \leq -20V, T_j = 25^\circ C$		35	175	mV
		$-9V \leq V_i \leq -20V, T_j = 25^\circ C$		29	125	mV
Quiescent Current	I_q			3.9	6.0	mA
Quiescent Current Change	ΔI_q	$-9V \leq V_i \leq -20V$			1.5	mA
	ΔI_q	$1mA \leq V_i \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		46		uV
Ripple Rejection	RR	$-9V \leq V_i \leq -19V, f = 120Hz, T_j = 25^\circ C$	40	48		dB
Dropout Voltage	V_d	$T_j = 25^\circ C$		1.7		V

TYPICAL APPLICATION



Note 1: Bypass capacitors are recommended for optimum stability and transient response and should be located as close possible to the regulators.