

SOT-23-3L Encapsulate Three Terminal Voltage Regulators

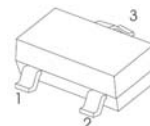
CJ79L06 Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 I_{OM} : 0.1 A
- Output voltage
 V_O : -6 V
- Continuous total dissipation
 P_D : 0.35 W

SOT-23-3L

- 1. GND
- 2. OUT
- 3. IN



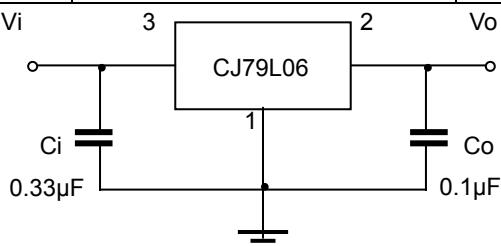
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	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 ($V_i = -11V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	25°C	-5.75	-6.0	-6.25	V
		-8V ≤ V_i ≤ -20V, $I_o = 1mA \sim 40mA$	-5.7	-6.0	-6.3	V
		$I_o = 1mA \sim 70mA$	-5.7	-6.0	-6.3	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$	25°C	21	80	mV
		$I_o = 1mA \sim 40mA$	25°C	11	40	mV
Line Regulation	ΔV_o	-8V ≤ V_i ≤ -20V	25°C	20	175	mV
		-9V ≤ V_i ≤ -20V	25°C	15	125	mV
Quiescent Current	I_q		25°C	3.9	6.0	mA
Quiescent Current Change	ΔI_q	-9V ≤ V_i ≤ -20V	0-125°C		1.5	mA
	ΔI_q	1mA ≤ V_i ≤ 40mA	0-125°C		0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C	44		μV
Ripple Rejection	RR	-9V ≤ V_i ≤ -19V, $f = 120Hz$	0-125°C	40	48	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 possible to the regulators.