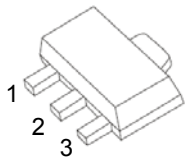
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89-3L Encapsulate Three Terminal Voltage Regulators

CJ79L06 Three-terminal negative voltage regulator

SOT-89-3L

1. GND
2. IN
3. OUT



FEATURES

- Maximum output current
  $I_{OM:}$ 0.1 A
- Output voltage
  V_o: -6 V
- Continuous total dissipation
  P_D: 0.5 W

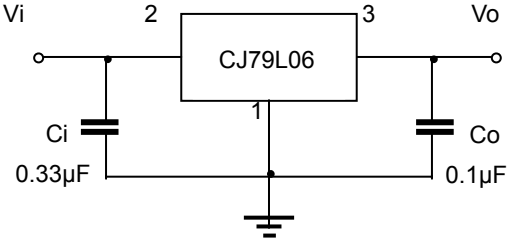
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (V_I=-11V,Io=40mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25℃	-5.75	-6.0	-6.25	V
		-8V≤V_I≤-20V, Io=1mA~40mA	0-125℃	-5.7	-6.0	-6.3	V
		Io=1mA~70mA		-5.7	-6.0	-6.3	V
Load Regulation	ΔVo	Io=1mA~100mA	25℃		21	80	mV
		Io=1mA~40mA	25℃		11	40	mV
Line Regulation	ΔVo	-8V≤V_I≤-20V	25℃		20	175	mV
		-9V≤V_I≤-20V	25℃		15	125	mV
Quiescent Current	Iq		25℃		3.9	6.0	mA
Quiescent Current Change	ΔIq	-9V≤V_I≤-20V	0-125℃			1.5	mA
	ΔIq	1mA≤V_I≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		44		μV
Ripple Rejection	RR	-9V≤V_I≤-19V,f=120HZ	0-125℃	40	48		dB
Dropout Voltage	Vd		25℃		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.

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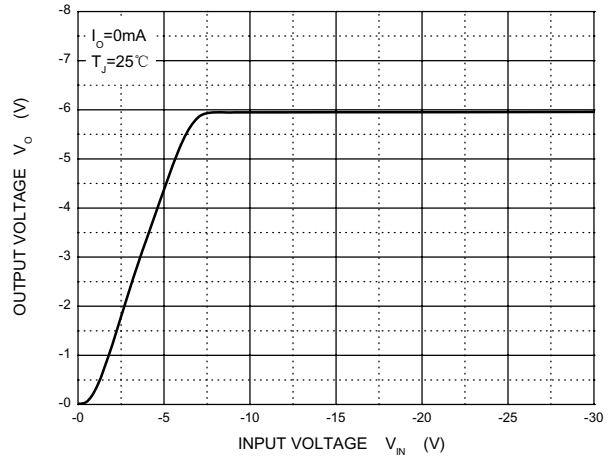
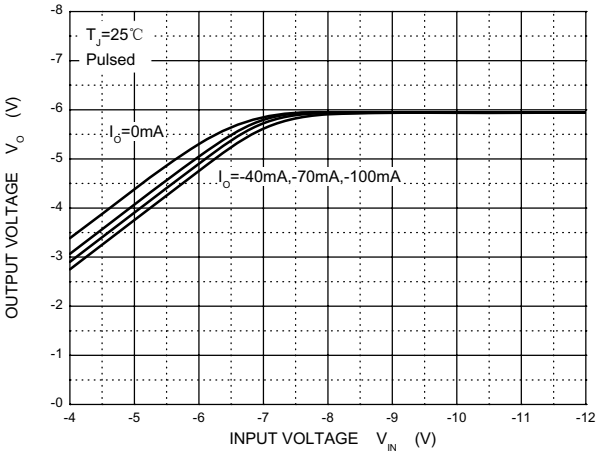
Typical Characterisitics CJ79L06

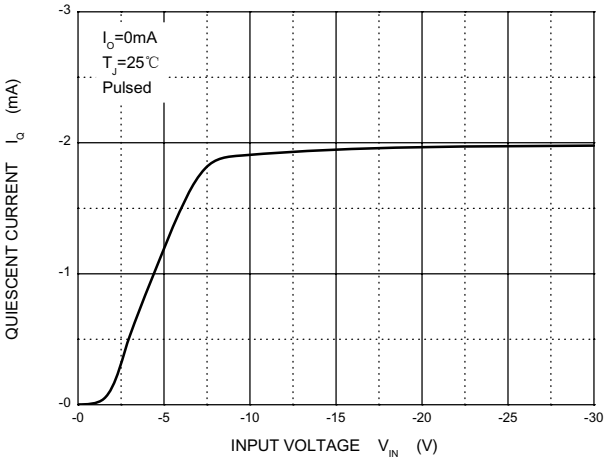
Output Characteristics



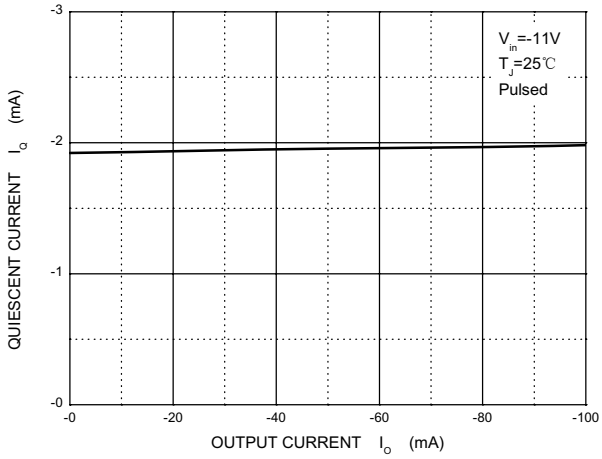
Dropout Characteristics



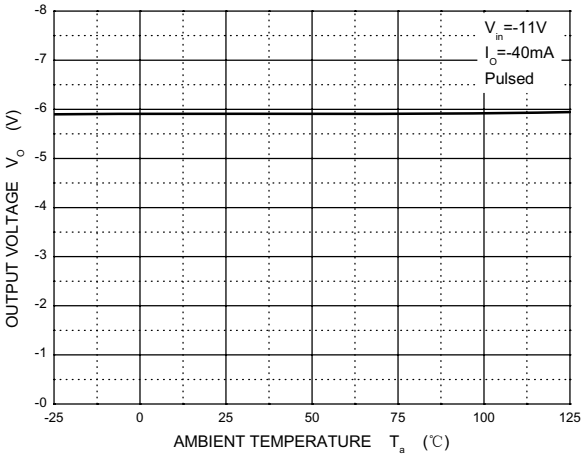
Quiescent Current vs Input Voltage



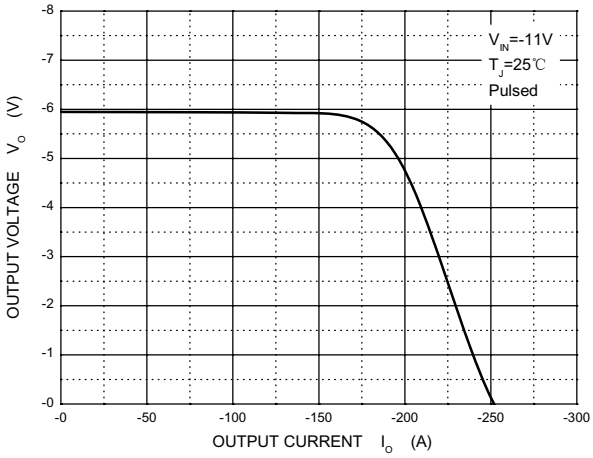
Quiescent Current vs Output Current



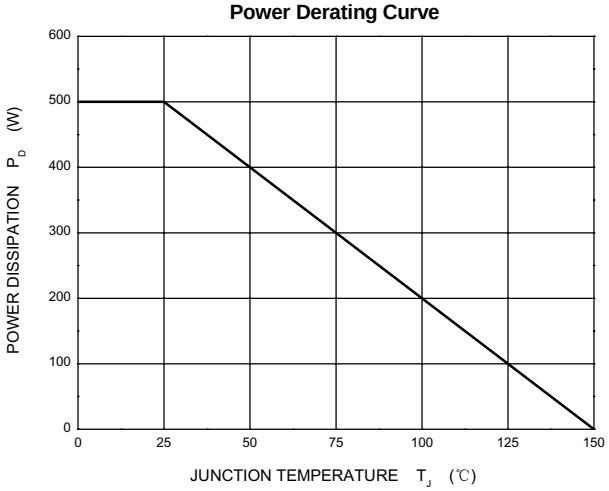
Output Voltage vs Ambient Temperature



Current Cut-off Grid Voltage



Power Derating Curve



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