

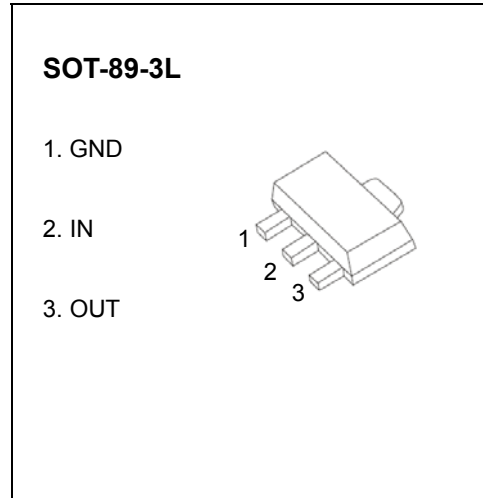


SOT-89 Encapsulate Three Terminal Voltage Regulator

79L06 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: 0.5 W



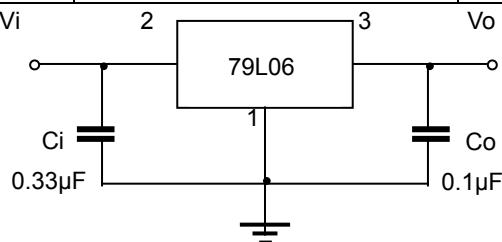
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (V_i=-11V, I_o=40mA, C_i=0.33μF, C_o=0.1μF, 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~40mA	-5.7	-6.0	-6.3	V
		I _o =1mA~70mA	-5.7	-6.0	-6.3	V
Load Regulation	ΔV _o	I _o =1mA~100mA	25°C	21	80	mV
		I _o =1mA~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.

