

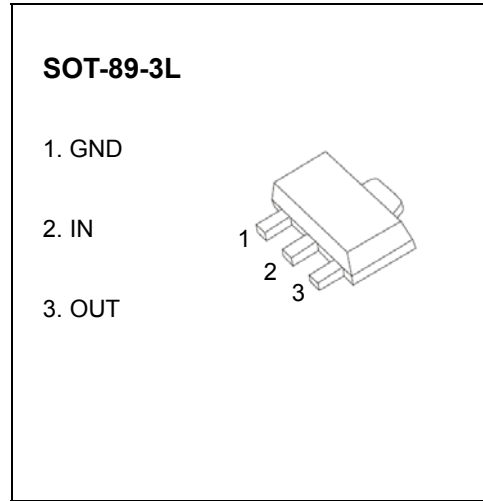


SOT-89 Encapsulate Three Terminal Voltage Regulator

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



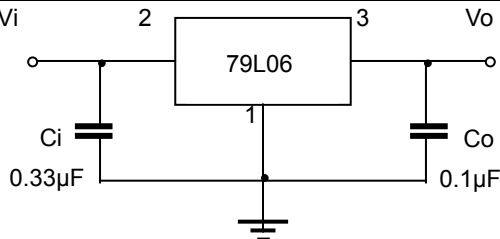
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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

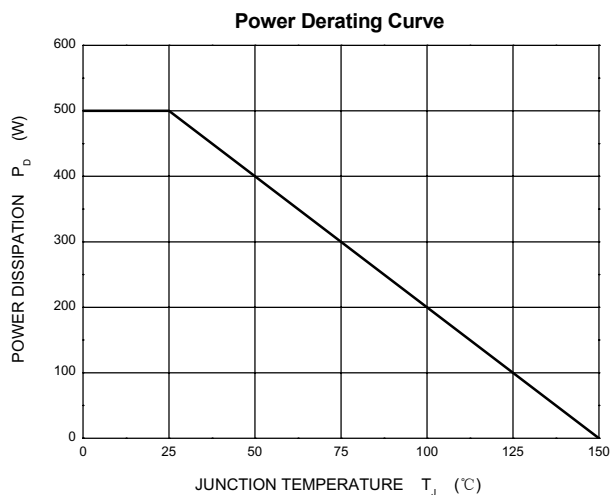
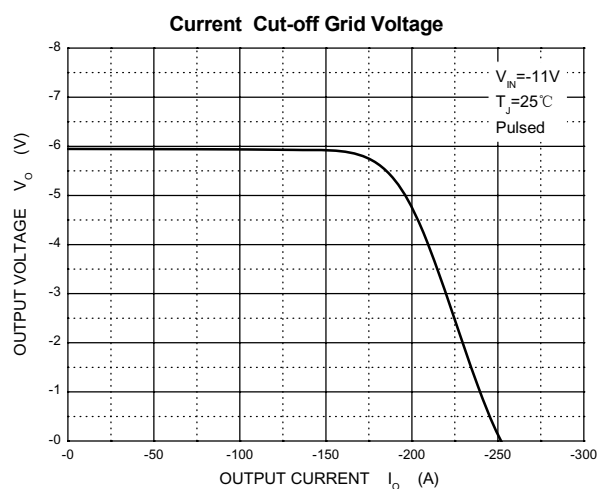
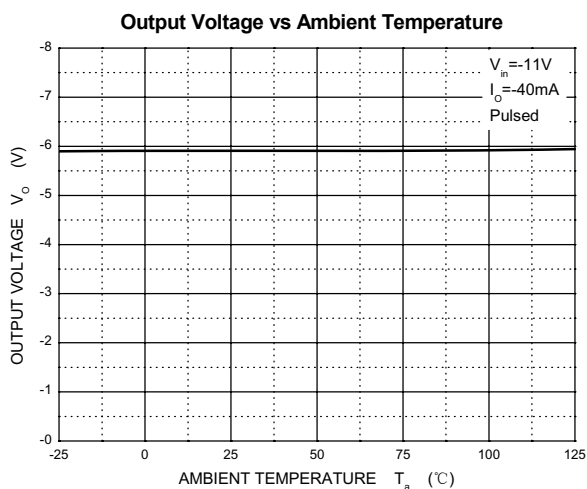
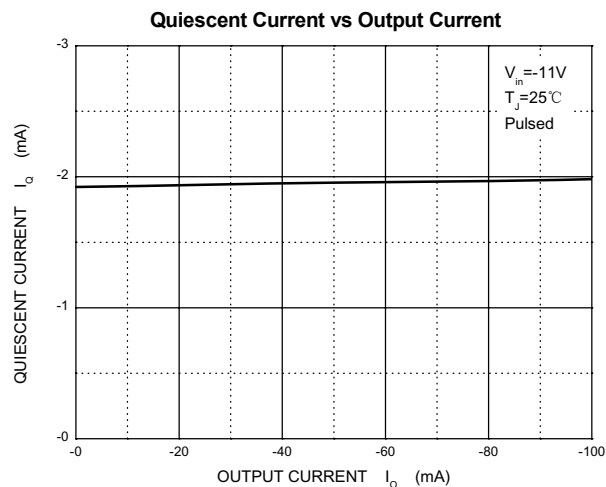
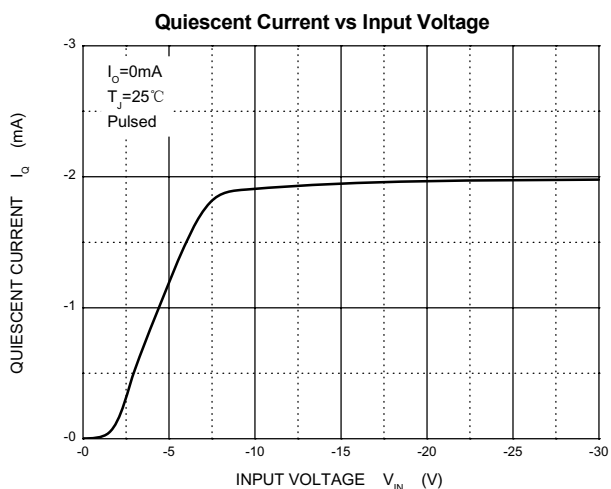
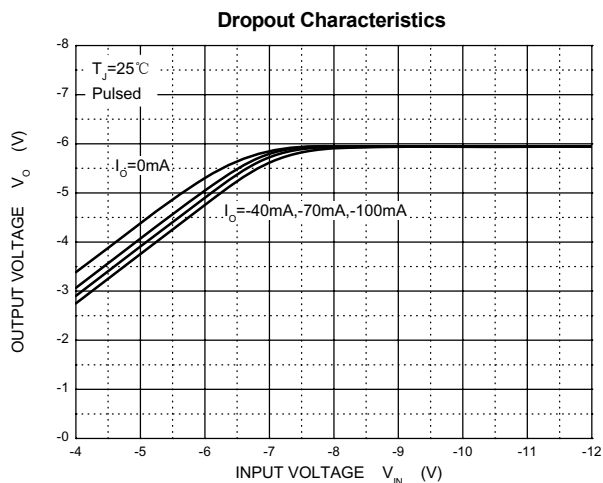
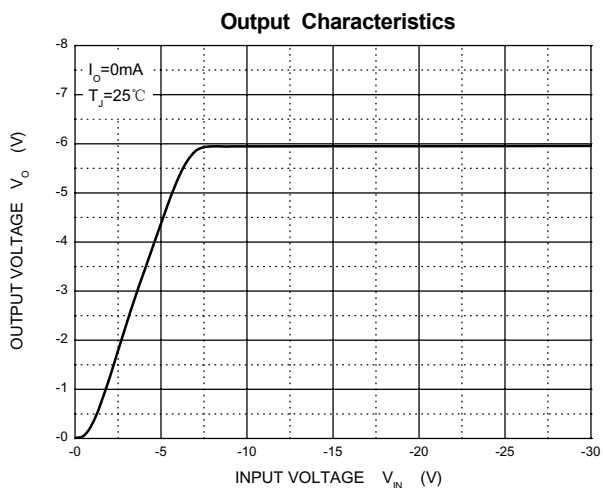
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (V_i=-11V, I_o=40mA, C_i=0.33μF, C_o=0.1μF, unless otherwise specified)

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

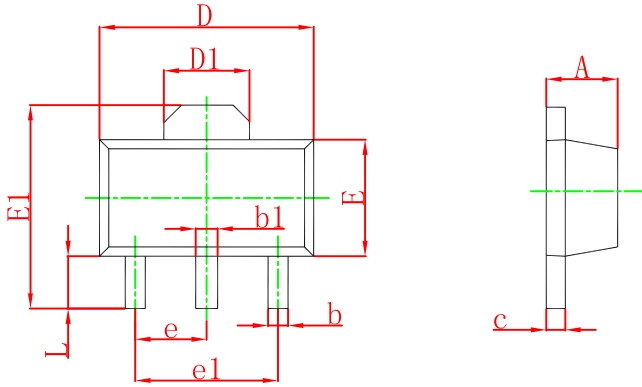
TYPICAL APPLICATION



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

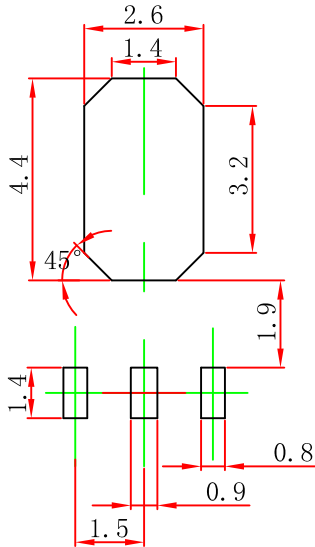


SOT-89-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

SOT-89-3L Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.