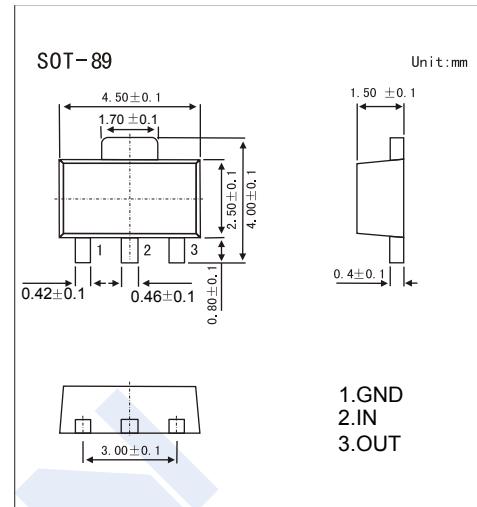


## Three-Terminal Negative Voltage Regulator

## LM79L06



## ■ Features

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

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Input Voltage	$V_I$	-30	V
Operating junction temperature range	$T_{OPR}$	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$

■ Electrical Characteristics ( $V_I=-11\text{V}, I_O=40\text{mA}, 0^\circ\text{C} < T_j < 125^\circ\text{C}, C_1=0.33\mu\text{F}, C_0=0.1\mu\text{F}$ , unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	$V_O$	$T_j=25^\circ\text{C}$	-5.75	-6.0	-6.25	V
		$-8V \leq V_I \leq -20V, I_O=1\text{mA}-40\text{mA}$	-5.7	-6.0	-6.3	V
		$I_O=1\text{mA}-70\text{mA}$	-5.7	-6.0	-6.3	V
Load regulation	$\Delta V_O$	$T_j=25^\circ\text{C}, I_O=1\text{mA}-100\text{mA}$	21	80	80	mV
		$T_j=25^\circ\text{C}, I_O=1\text{mA}-40\text{mA}$	11	40	40	mV
Line regulation	$\Delta V_O$	$-8V \leq V_I \leq -20V, T_j=25^\circ\text{C}$	20	175	175	mV
		$-9V \leq V_I \leq -20V, T_j=25^\circ\text{C}$	15	125	125	mV
Quiescent current	$I_Q$	$25^\circ\text{C}$	3.9	6.0	6.0	mA
Quiescent current change	$\Delta I_Q$	$0^\circ\text{C} < T_j < 125^\circ\text{C}, -9V \leq V_I \leq -20V$			1.5	mA
	$\Delta I_Q$	$0^\circ\text{C} < T_j < 125^\circ\text{C}, 1\text{mA} \leq I_O \leq 40\text{mA}$			0.1	mA
Output noise voltage	$V_N$	$10\text{Hz} \leq f \leq 100\text{KHz}, T_j=25^\circ\text{C}$	44			uV
Ripple rejection	$RR$	$-9V \leq V_I \leq -19V, f=120\text{Hz}$	40	48		dB
Dropout voltage	$V_d$	$T_j=25^\circ\text{C}$		1.7		V

## ■ Typical Application

