



TO-92 Encapsulate Three-terminal Voltage Regulator

79L06 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

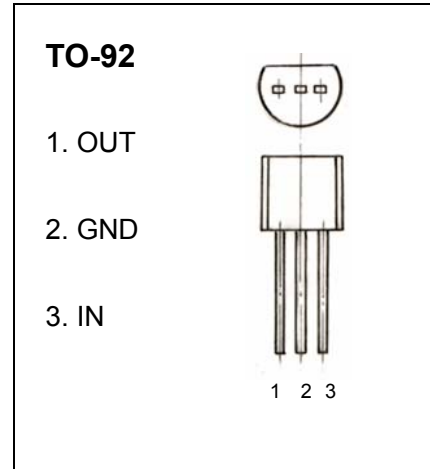
$$I_{OM}: 0.1 \text{ A}$$

Output voltage

$$V_o: -6 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg}: -55^\circ\text{C to } +150^\circ\text{C}$$



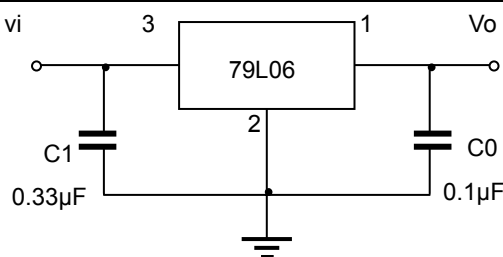
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter Symbol		Value	Units
Input Voltage	V_I	- 30	V
Operating Junction Temperature Range	T_{OPR}	0~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($V_I=11\text{V}, I_o=40\text{mA}, 0^\circ\text{C}<T_J<125^\circ\text{C}, C_1=0.33\mu\text{F}, C_o=0.1\mu\text{F}$, unless otherwise specified)

Parameter Sy	mbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_J=25^\circ\text{C}$	-5.75	-6.0	-6.25	V
		$8\text{V}\leq V_I\leq 20\text{V}, I_o=1\text{mA}\sim 40\text{mA}$	-5.7	-6.0	-6.3	V
		$8\text{V}\leq V_I\leq V_{MAX}, I_o=1\text{mA}\sim 70\text{mA}$	-5.7	-6.0	-6.3	V (note)
Load Regulation	ΔV_o	$T_J=25^\circ\text{C}, I_o=1\text{mA}\sim 100\text{mA}$		16	80	mV
		$T_J=25^\circ\text{C}, I_o=1\text{mA}\sim 40\text{mA}$		9	40	mV
Line regulation	ΔV_o	$8\text{V}\leq V_I\leq 20\text{V}, T_J=25^\circ\text{C}$		35	175	mV
		$9\text{V}\leq V_I\leq 20\text{V}, T_J=25^\circ\text{C}$		29	125	mV
Quiescent Current	I_q			3.9	6.0	mA
Quiescent Current Change	ΔI_q	$9\text{V}\leq V_I\leq 20\text{V}$			1.5	mA
	ΔI_q	$1\text{mA}\leq V_I\leq 40\text{mA}$			0.1	mA
Output Noise Voltage	V_N	$10\text{Hz}\leq f\leq 100\text{KHz}$		46		μV
Ripple Rejection	RR	$9\text{V}\leq V_I\leq 19\text{V}, f=120\text{HZ}, T_J=25^\circ\text{C}$	40	48		dB
Dropout Voltage	V_d	$T_J=25^\circ\text{C}$		1.7		V

TYPICAL APPLICATION



Note 1: Bypass capacitors are recommended for optimum stability and transient response and should be located as close possible to the regulators.