

SOT-89 Encapsulate Three Terminal Voltage Regulators

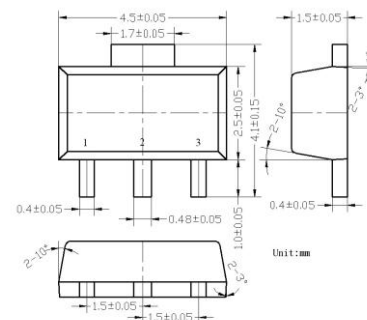
79L06 Three-terminal negative regulator

Features:

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

ABSOLUTE MAXIMUM RATINGS(operating temperature range applies unless otherwise noted)

Parameter	Symbol	Value	Unit
Input voltage	V_I	-30	V
Operating Junction Temperature	T_{OPR}	0~+150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

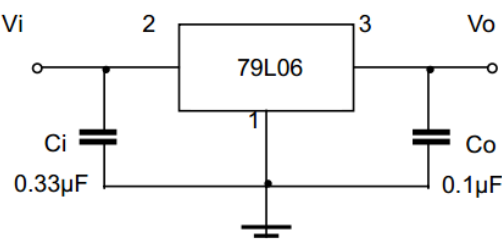


1. GND
2. IN
3. OUT

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE($V_I=-11V, I_O=40mA, C_i=0.33 \mu F, C_o=0.1 \mu F$, unless otherwise specified)

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



Typical Characteristics

79L06

