

SOT-23 Plastic-Encapsulate Voltage Regulators

79L06 Three-terminal positive voltage regulator

FEATURES

Maximum Output current I_O : 0.1 A

Output voltage V_O : -6 V

Continuous total dissipation P_D : 0.35 W ($T_a=25^\circ C$)



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies)

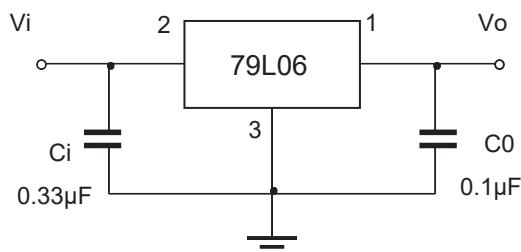
Parameter	Symbol	Value	Unit
Input Voltage	V_I	-30	V
Operating Junction Temperature Range	T_{OPR}	0-150	°C
Storage Temperature Range	T_{STG}	-65-150	°C

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	V_o	25°C	-5.75	-6.0	-6.25	V	
		-8V≤ V_i ≤-20V, $I_o=1mA$ ~40mA	0-125°C	-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	mA		
Quiescent Current Change	ΔI_q	-9V≤ V_i ≤-20V	0-125°C		1.5	mA	
	ΔI_q	1mA≤ I_o ≤40mA	0-125°C		0.1	mA	
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	44		uV	
Ripple Rejection	RR	-9V≤ V_i ≤-19V, f=120Hz	0-125°C	40	48	dB	
Dropout Voltage	V_d		25°C	1.7		V	

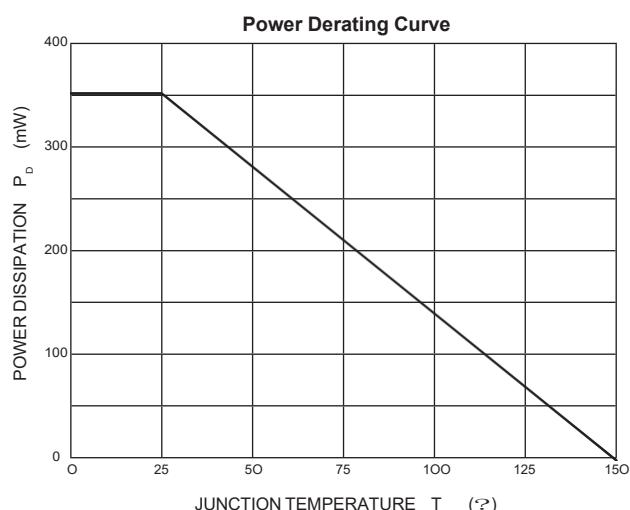
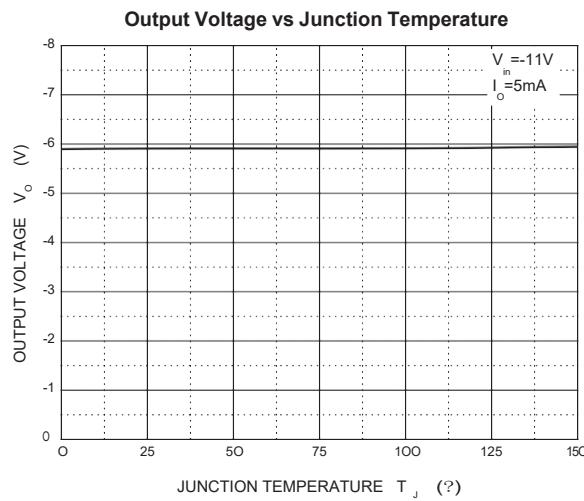
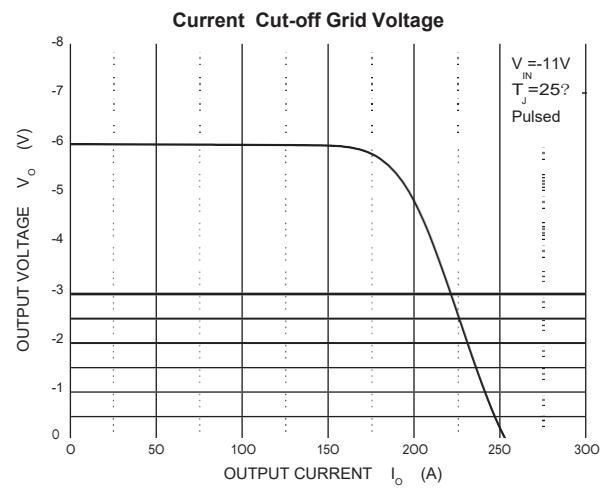
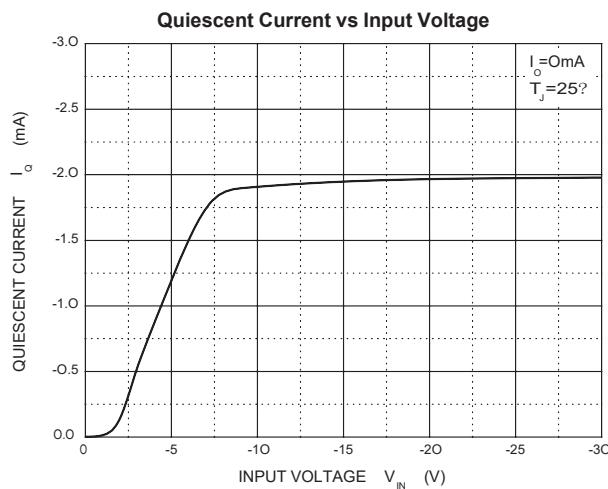
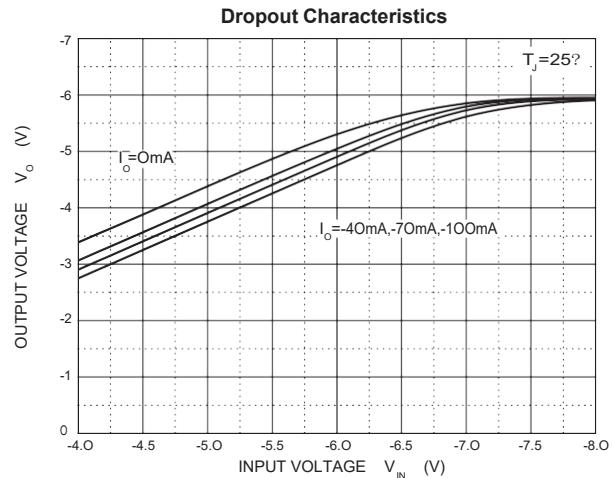
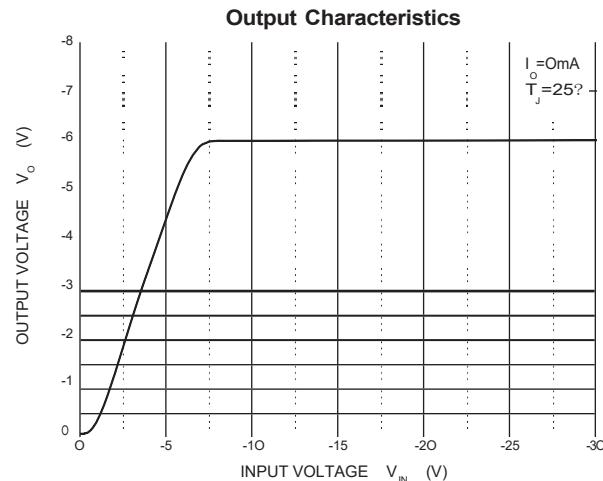
* Pulse test.

TYPICAL APPLICATION



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

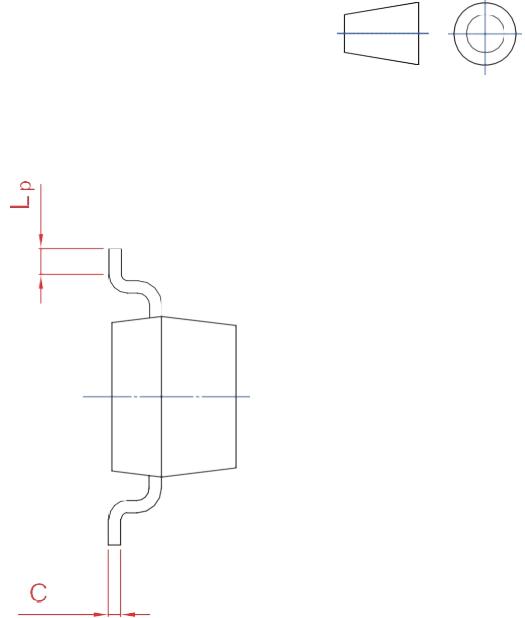
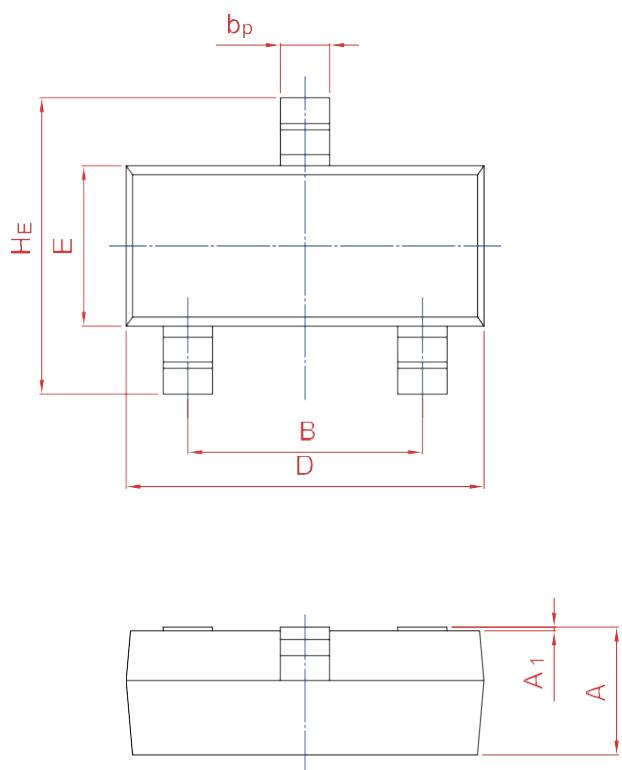
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20