Product specification

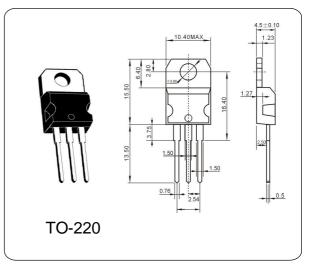
3-Terminal 1A Positive Voltage Regulator

GENERAL DESCRIPTION

The LM7906 series of three terminal positive regulators are available in the TO-220 package and with several fixed output voltages, making them useful in a wide range of applications. Each type employs internal current limiting, thermal shut down and safe operating area protection, making it essentially indestructible. If adequate heat sinking is provided, they can deliver over 1A output current. Although designed primarily as fixed voltage regulators, these devices can be used with external components to

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Тур	Unit	
Input Voltage	Vi	-35	V	
Output Voltage	Vo	-6.0	V	
Peak Current	I _{PK}	-2.2	А	
Operating Temperature Range	T _{OPR}	0~125	°C	
Storage Temperature Range	T _{STG}	-65~150	°C	



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

(Refer to test circuit, Io = -500mA, Vi = -11V, Ci= 2.2uF, Co=1.0uF unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage	Vo	$V_1 = -9V \text{ to } -21V$	-5.82	-6.0	-6.18	V
Line Regulation (Note1)	Regline	$V_1 = -8V \text{ to } -25V$		-10	-120	mV
		$V_1 = -9V$ to $-12V$		-5.0	-60	
Load Regulation (Note1)	Regload	I _o = -5.0mA to-1.5A	_	-10	-120	mV
		I _o =-250mA to -750mA		-3	-60	
Quiescent Current	Ι _Q	T _J =+25 °C		-3	-6	mA
Quiescent Current Change	Δlq	$I_0 = -5mA$ to $-1A$			-0.5	mA
		$V_1 = -9V \text{ to } -25V$			-1.3	
Ripple Rejection	RR	$f = 120Hz, V_0 = -8V \text{ to } -18V$	54	60		dB
Dropout Voltage	V _{Drop}	I _o = -1A, T _J =+25 °C		-2		V
Short Circuit Current	I _{SC}	V ₁ = -35V, T _A =+25 °C		-300		mA
Peak Current	I _{PK}	T _J =+25 °C		-2.2		Α

LM7906