

Three-terminal positive voltage regulator

FEATURES

•Maximum output current IOM: 0.5A

Output voltage VO: 6V

Continuous total dissipation

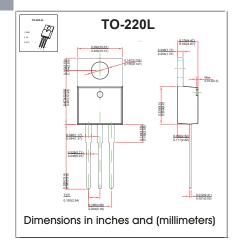
P_D: 1.5W (T_a = 25 °C)

MECHANICAL DAT

•Case: TO-220L Plastic Package

•Polarity: Color band denotes cathode end

Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

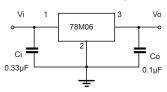
Parameter	Symbol	Value	Unit	
Input Voltage	Vi	35	V	
Thermal Resistance from Junction to Ambient	R _{θJA}	66.7	°C/W	
Operating Junction Temperature Range	T _{OPR}	-25~+125	$^{\circ}$	
Storage Temperature Range	T _{STG}	-65~+150	℃	

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (Vi=11V, IO=350mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Output Voltage			25℃	5.75	6	6.25	V
	Vo	8V≤V₁≤21V, Io=5mA-350mA	-25-125℃	5.7	6	6.3	V
Load Regulation	ΔVο	Io=5mA-0.5A	25°C		18	120	mV
		Io=5mA-200mA	25℃		10	60	mV
Line Regulation	ΔVο	8V≤V _i ≤25V, Io=200mA	25℃		5	100	mV
		9V≤V _i ≤25V, Io=200mA	25℃		1.5	50	mV
Quiescent Current	Iq		25℃		4.3	6	mA
Quiescent Current Change	Δlq	9V≤V _i ≤25V, Io=200mA	-25-125℃			8.0	mA
	Δlq	5mA≤I ₀ ≤350mA	-25-125℃			0.5	mA
Output Noise Voltage	V _N	10Hz≤ f ≤100KHz	25℃		45		μV/Vo
Ripple Rejection	RR	9V≤V _i ≤19V,f=120Hz,Io=300mA	-25-125℃	59	80		dB
Dropout Voltage	Vd	Io=350mA	25℃		2		V
Short Circuit Current	Isc	Vi=11V	25℃		270		mA
Peak Current	lpk		25℃		0.5		Α

^{*} 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.



RATINGS AND CHARACTERISTIC CURVES

TYPICAL APPLICATION

