

Three-terminal positive voltage regulator

FEATURES

- Maximum output current I_{OM}: 1.5 A

- Output voltage V_O: -12V

- Continuous total dissipation

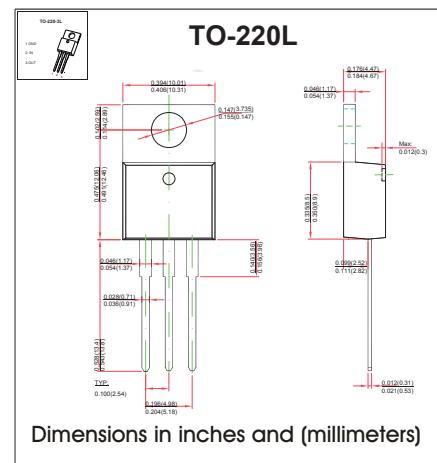
P_D: 1.5 W (T_a= 25 °C)

MECHANICAL DATA

- Case: TO-220 Small Outline Plastic Package

- Polarity: Color band denotes cathode end

- Mounting Position: Any



ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V _i	-35	V
Thermal Resistance from Junction to Air	R _{θJA}	83.3	°C/W
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=-19V, I_O=500mA, C_i=2.2μF, C_O=1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V _O		25°C	-11.52	-12	-12.48	V
		-14.5V≤V _i ≤-27V, I _O =5mA-1A	0-125°C	-11.4	-12	-12.6	V
Load Regulation	ΔV _O	I _O =5mA-1.5A	25°C		15	200	mV
		I _O =250mA-750mA	25°C		5	75	mV
Line Regulation	ΔV _O	-14.5V≤V _i ≤-30V	25°C		5	80	mV
		-16V≤V _i ≤-22V	25°C		3	30	mV
Quiescent Current	I _Q		25°C		2	3	mA
Quiescent Current Change	ΔI _Q	-14.5V≤V _i ≤-30V	0-125°C			0.5	mA
	ΔI _Q	5mA≤I _Q ≤1A	0-125°C			0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C		300		μV/V _O
Output Voltage Drift	△V _O /△T	I _O =5mA	0-125°C		-0.8		mV/°C
Ripple Rejection	RR	-15V≤V _i ≤-25V, f=120Hz	0-125°C	54	60		dB
Dropout Voltage	V _d	I _O =1A	25°C		1.1		V
Peak Current	I _{pk}		25°C		2.1		A

* Pulse test.

TYPICAL APPLICATION

