HFZT

7908

Three-terminal positive voltage regulator

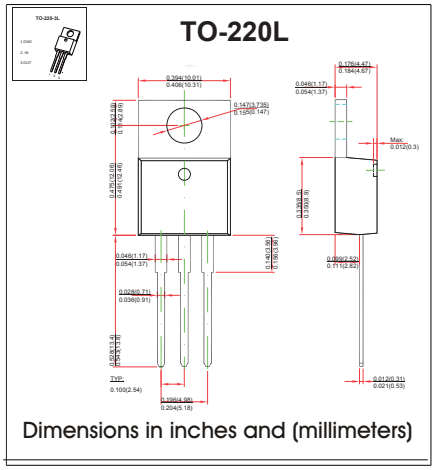
FEATURES

- Maximum output current IOM: 1.5 A
- Output voltageVO: -8V
- Continuous total dissipation

PD: 1.5 W (T a= 25 ℃)

MECHANICAL DATA

- Case: TO-220 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

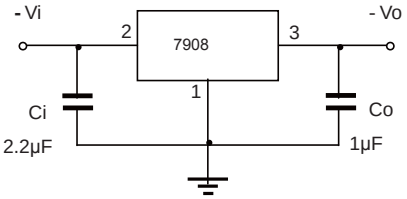
ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherw ise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Thermal Resistance from Junction to Air	$R_{\theta JA}$	83.3	℃/W
Operating Junction Temperature Range	T_{OPR}	0~+150	℃
Storage Temperature Range	T_{STG}	-65~+150	℃

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE(Vi=-14V,Io=500mA,Ci=2.2μF, Co=1μF, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25℃	-7.68	-8	-8.32	V
		-10.5V≤Vi≤-23V,Io=5mA-1A	0-125℃	-7.6	-8	-8.4	V
Load Regulation	ΔVo	Io=5mA-1.5A	25℃		15	160	mV
		Io=250mA-750mA	25℃		5	80	mV
Line Regulation	ΔVo	-10.5V≤Vi≤-25V	25℃		12.5	160	mV
		-11V≤Vi≤-17V	25℃		4	80	mV
Quiescent Current	Iq		25℃		1.5	2	mA
Quiescent Current Change	ΔIq	-10.5V≤Vi≤-25V	0-125℃			1	mA
	ΔIq	5mA≤I_O≤1A	0-125℃			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		200		μV/Vo
Output Voltage drift	△Vo/△T	I_O=5mA	0-125℃		-0.6		mV/℃
Ripple Rejection	RR	-11.5V≤Vi≤-21.5V,f=120Hz	0-125℃	54	60		dB
Dropout Voltage	Vd	Io=1A	25℃		1.1		V
Peak Current	Ipk		25℃		2.1		A

* Pulse test.

TYPICAL APPLICATION