

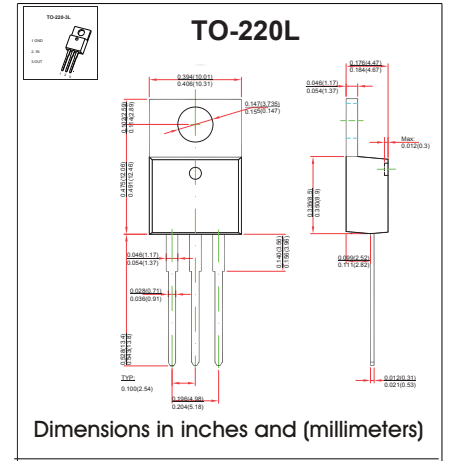
Three-terminal positive voltage regulator

**FEATURES**

- Maximum output current IOM: 1.5 A
- Output voltage VO: -8V
- Continuous total dissipation  
PD: 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	$R_{\theta JA}$	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 ( $V_i=-14V, I_o=500mA, C_i=2.2\mu F, C_o=1\mu F$ , unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	$V_o$	25°C	-7.68	-8	-8.32	V
		-10.5V ≤ $V_i$ ≤ -23V, $I_o=5mA-1A$	0-125°C	-7.6	-8	-8.4
Load Regulation	$\Delta V_o$	$I_o=5mA-1.5A$	25°C	15	160	mV
		$I_o=250mA-750mA$	25°C	5	80	mV
Line Regulation	$\Delta V_o$	-10.5V ≤ $V_i$ ≤ -25V	25°C	12.5	160	mV
		-11V ≤ $V_i$ ≤ -17V	25°C	4	80	mV
Quiescent Current	$I_q$	25°C		1.5	2	mA
Quiescent Current Change	$\Delta I_q$	-10.5V ≤ $V_i$ ≤ -25V	0-125°C		1	mA
	$\Delta I_q$	5mA ≤ $I_o$ ≤ 1A	0-125°C		0.5	mA
Output Noise Voltage	$V_N$	10Hz ≤ f ≤ 100KHz	25°C	200		μV/V <sub>o</sub>
Output Voltage drift	$\Delta V_o / \Delta T$	$I_o=5mA$	0-125°C	-0.6		mV/°C
Ripple Rejection	RR	-11.5V ≤ $V_i$ ≤ -21.5V, 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**

