

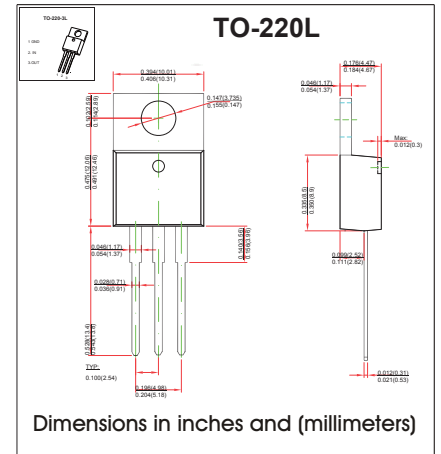
Three-terminal positive voltage regulator

FEATURES

- Maximum output current IOM: 1.5 A
- Output voltage V_O : -15V
- Continuous total dissipation
 P_D : 1.25 W ($T_a = 25^\circ C$)

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	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	0~+150	$^\circ C$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ C$

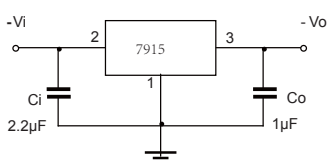
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

($V_i = -23V$, $I_o = 500mA$, $C_i = 2.2\mu F$, $C_o = 1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	$25^\circ C$	-14.4	-15	-15.6	V
		$-17.5V \leq V_i \leq -30V$, $I_o = 5mA - 1A$	0-125 $^\circ C$	-14.25	-15	-15.75
Load regulation	ΔV_o	$I_o = 5mA - 1.5A$	$25^\circ C$	15	200	mV
		$I_o = 250mA - 750mA$	$25^\circ C$	5	75	mV
Line regulation	ΔV_o	$-17.5V \leq V_i \leq -30V$	$25^\circ C$	5	100	mV
		$-20V \leq V_i \leq -26V$	$25^\circ C$	3	50	mV
Quiescent current	I_q	$25^\circ C$		2	3	mA
Quiescent current change	ΔI_q	$-17.5V \leq V_i \leq -30V$	0-125 $^\circ C$		0.5	mA
	ΔI_q	$5mA \leq I_o \leq 1A$	0-125 $^\circ C$		0.5	mA
Output noise voltage	V_N	10Hz $\leq f \leq$ 100KHz	$25^\circ C$	375		$\mu V/V_o$
Output voltage drift	$\Delta V_o / \Delta T$	$I_o = 5mA$	0-125 $^\circ C$	-1		mV/ $^\circ C$
Ripple rejection	RR	$-18.5V \leq V_i \leq -28.5V$, $f = 120Hz$	0-125 $^\circ C$	54	60	dB
Dropout voltage	V_d	$I_o = 1A$	$25^\circ C$		1.1	V
Peak current	I_{pk}		$25^\circ C$		2.1	A

* Pulse test.

TYPICAL APPLICATION



RATINGS AND CHARACTERISTIC CURVES

TYPICAL APPLICATION

