

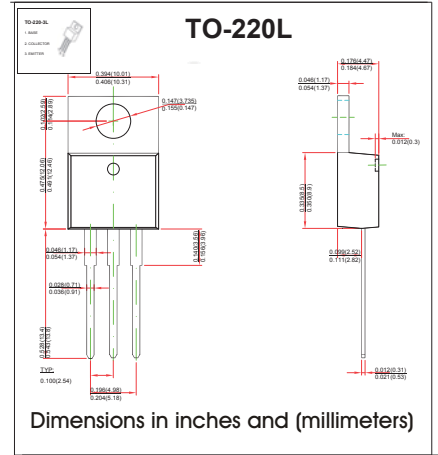
Three-terminal positive voltage regulator

FEATURES

- Maximum output current IOM:1.5 A
- Output voltage VO: 15 V
- Continuous total dissipation PD: 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)

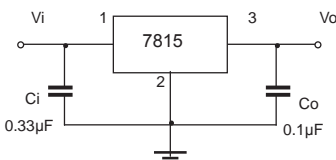
Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	66.7	°C/W
Operating Junction Temperature Range	T_{OPR}	-25~+125	°C
Storage Temperature Range	T_{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
($V_i=23V, I_o=500mA, C_i=0.33 F, C_o=0.1 F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$25^{\circ}C$	14.4	15	15.6	V
		$17.5V \leq V_i \leq 30V, I_o=5mA-1A$ $-25-125^{\circ}C$	14.25	15	15.75	V
Load Regulation	ΔV_o	$I_o=5mA-1.5A$ $25^{\circ}C$		12	300	mV
		$I_o=250mA-750mA$ $25^{\circ}C$		4	150	mV
Line regulation	ΔV_o	$17.5V \leq V_i \leq 30V$ $25^{\circ}C$		12	300	mV
		$20V \leq V_i \leq 26V$ $25^{\circ}C$		3	150	mV
Quiescent Current	I_q	$25^{\circ}C$		4.3	8	mA
Quiescent Current Change	ΔI_q	$17.5V \leq V_i \leq 30V$ $-25-125^{\circ}C$			1	mA
		$5mA \leq I_o \leq 1A$			0.5	mA
Output voltage drift	$\Delta V_o / \Delta T$	$I_o=5mA$ $-25-125^{\circ}C$		-1		mV/°C
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$ $25^{\circ}C$		90		$\mu V / V_o$
Ripple Rejection	RR	$18.5V \leq V_i \leq 28.5V, f=120Hz$ $-25-125^{\circ}C$	54	70		dB
Dropout Voltage	V_d	$I_o=1A$ $25^{\circ}C$		2		V
Output resistance	R_o	$f=1KHz$ $25^{\circ}C$		19		m Ω
Short Circuit Current	I_{sc}	$25^{\circ}C$		230		mA
Peak Current	I_{pk}	$25^{\circ}C$		2.1		A

* 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

