

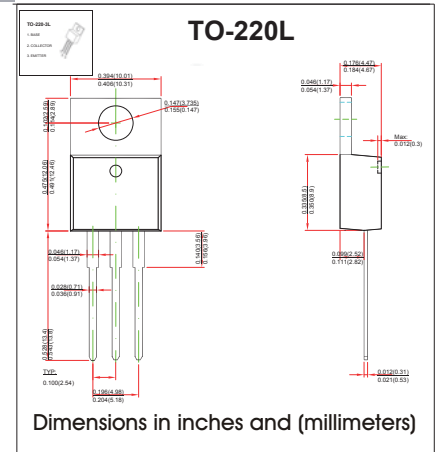
Three-terminal positive voltage regulator

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

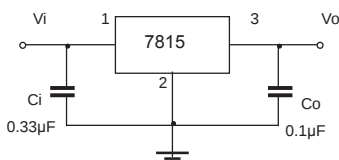
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

($V_i=23V, I_o=500mA, C_i=0.33 F, C_o=0.1 F$, unless otherwise specified)

Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
Output voltage	Vo		25°C	14.4	15	15.6	V
		17.5V≤Vi≤30V, Io=5mA-1A	-25-125°C	14.25	15	15.75	V
Load Regulation	ΔVo	Io=5mA-1.5A	25°C		12	300	mV
		Io=250mA-750mA	25°C		4	150	mV
Line regulation	ΔVo	17.5V≤Vi≤30V	25°C		12	300	mV
		20V≤Vi≤26V	25°C		3	150	mV
Quiescent Current	Iq		25°C		4.3	8	mA
Quiescent Current Change	ΔIq	17.5V≤Vi≤30V	-25-125°C			1	mA
	ΔIq	5mA≤Io≤1A				0.5	mA
Output voltage drift	ΔVo/ΔT	Io=5mA	-25-125°C		-1		mV/°C
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		90		μV/Vo
Ripple Rejection	RR	18.5V≤Vi≤28.5V,f=120Hz	-25-125°C	54	70		dB
Dropout Voltage	Vd	Io=1A	25°C		2		V
Output resistance	RO	f=1KHz	25°C		19		mΩ
Short Circuit Current	Isc		25°C		230		mA
Peak Current	Ipk		25°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

