

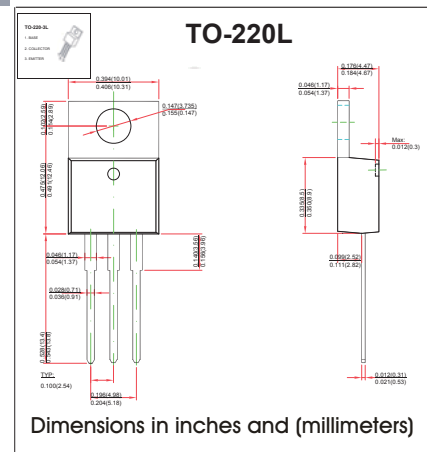
Three-terminal positive voltage regulator

FEATURES

- Maximum output current IOM: 0.5A
- Output voltage VO: 6V
- Continuous total dissipation
PD: 1.5W ($T_a = 25^\circ\text{C}$)

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	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_{OPR}	-25~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ\text{C}$

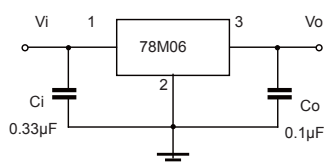
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

($V_i=11\text{V}$, $I_O=350\text{mA}$, $C_i=0.33\mu\text{F}$, $C_o=0.1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25°C	5.75	6	6.25	V
		8V≤Vi≤21V, Io=5mA-350mA	-25-125°C	5.7	6	6.3	V
Load Regulation	ΔVo	Io=5mA-0.5A	25°C		18	120	mV
		Io=5mA-200mA	25°C		10	60	mV
Line Regulation	ΔVo	8V≤Vi≤25V, Io=200mA	25°C		5	100	mV
		9V≤Vi≤25V, Io=200mA	25°C		1.5	50	mV
Quiescent Current	Iq		25°C		4.3	6	mA
Quiescent Current Change	ΔIq	9V≤Vi≤25V, Io=200mA	-25-125°C			0.8	mA
	ΔIq	5mA≤Io≤350mA	-25-125°C			0.5	mA
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		45		μV/Vo
Ripple Rejection	RR	9V≤Vi≤19V,f=120Hz,Io=300mA	-25-125°C	59	80		dB
Dropout Voltage	Vd	Io=350mA	25°C		2		V
Short Circuit Current	Isc	Vi=11V	25°C		270		mA
Peak Current	Ipk		25°C		0.5		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

