

Three-terminal positive voltage regulator

FEATURES

- Maximum output current I_{OM}: 0.1A

- Output voltage V_O: -15V

- Continuous total dissipation

PD: 0.625 W (T_a = 25 °C)

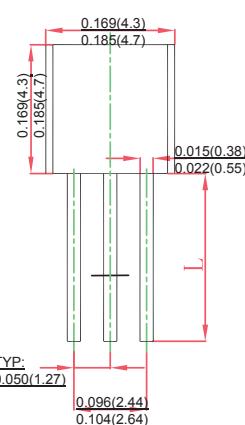
MECHANICAL DATA

- Case: TO-92 Small Outline Plastic Package

- Polarity: Color band denotes cathode end

- Mounting Position: Any

TO-92



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 Ambient	R _{θJA}	200	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

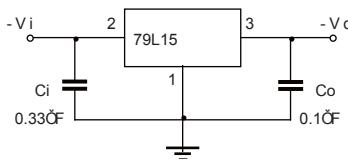
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

(V_i=-23V, I_O=40mA, C_i=0.33 μF, C_o=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output voltage	V _O		25°C	-14.4	-15	-15.6	V
		-17.5V~V _i ~-30V, I _O =1mA~40mA	0~125°C	-14.25	-15	-15.75	V
		I _O =1mA~70mA		-14.25	-15	-15.75	V
Load Regulation	ΔV _O	I _O =1mA~100mA, V _i =-23V	25°C		25	150	mV
		I _O =1mA~40mA, V _i =-23V	25°C		15	75	mV
Line regulation	ΔV _O	-17.5V~V _i ~-30V, I _O =40mA	25°C		65	300	mV
		-20V~V _i ~-30V, I _O =40mA	25°C		50	250	mV
Quiescent Current	I _Q		25°C			6.5	mA
Quiescent Current Change	ΔI _Q	-20V~V _i ~-30V, I _O =40mA	0~125°C			1.5	mA
	ΔI _Q	1mA~I _O ~40mA	0~125°C			0.1	mA
Output Noise Voltage	V _N	10Hz~f~100KHz	25°C		90		μV/V _O
Ripple Rejection	RR	-18.5V~V _i ~-28.5V, f=120Hz	0~125°C	34	39		dB
Dropout Voltage	V _d		25°C		1.7		V

* 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

