

# TO-92 Encapsulate Three-terminal Voltage Regulator

**79L15** Three-terminal negative voltage regulator

## FEATURES

Maximum Output current

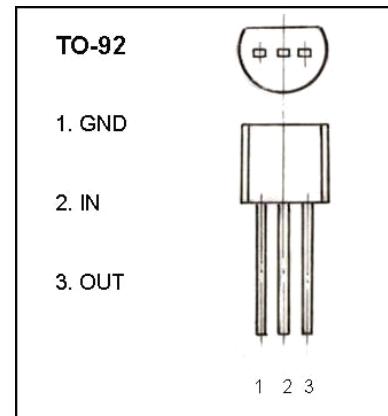
LOM: 100mA

Output voltage

Vo: -15V

Continuous total dissipation

PD: 0.625 W



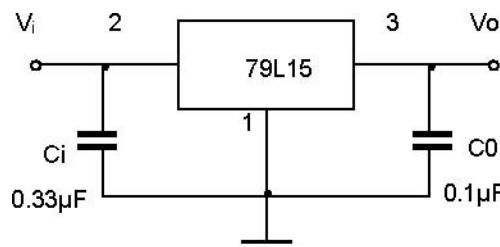
## ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V <sub>i</sub>	-35	V
Operating Junction Temperature Range	T <sub>OPR</sub>	0~+125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~+150	°C

## ELECTRICAL CHARACTERISTICS (Vi=-23V, Io=40mA, Ci=0.33μF, Co=0.1μF, 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=1mA~40mA	-14.25	-15	-15.75	V	
		Io=1mA~70mA	0-125°C	-14.25	-15	-15.75	V
Load Regulation	ΔVo	Io=1mA~100mA, Vi=-23V	25°C		25	150	mV
		Io=1mA~40mA, Vi=-23V	25°C		15	75	mV
Line regulation	ΔVo	-17.5V≤Vi≤-30V, Io=40mA	25°C		65	300	mV
		-20V≤Vi≤-30V, Io=40mA	25°C		50	250	mV
Quiescent Current	Iq		25°C		6.5	mA	
Quiescent Current Change	ΔIq	-20V≤Vi≤-30V, Io=40mA	0-125°C		1.5	mA	
	ΔIq	1mA≤Io≤40mA	0-125°C		0.1	mA	
Output Noise Voltage	V <sub>N</sub>	10Hz≤f≤100KHz	25°C		90	μV	
Ripple Rejection	RR	-18.5V≤Vi≤-28.5V, f=120Hz	0-125°C	34	39	dB	
Dropout Voltage	Vd		25°C		1.7	V	

## TYPICAL APPLICATION



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

## Typical Characteristics

