

Three-terminal positive voltage regulator

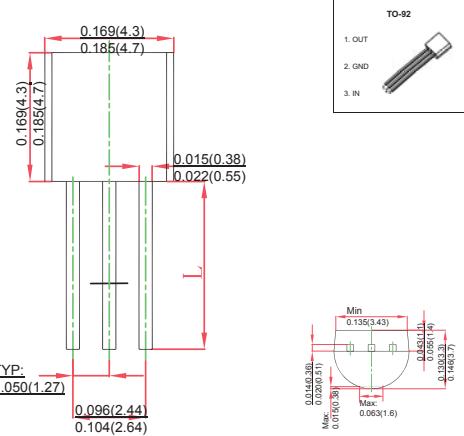
FEATURES

- Maximum output current I_{OM}: 0.1A
- Output voltage V_O: -12V
- Continuous total dissipation
P_D: 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

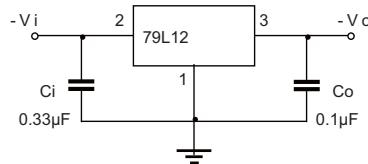
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

(V_I=-19V, 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	-11.52	-12	-12.48	V	
		-14.5V≤V _I ≤-27V, I _O =1mA~40mA	0-125°C	-11.4	-12	-12.6	V
		I _O =1mA~70mA		-11.4	-12	-12.6	V
Load Regulation	ΔV _O	I _O =1mA~100mA	25°C	24	100	mV	
		I _O =1mA~40mA	25°C	15	50	mV	
Line Regulation	ΔV _O	-14.5V≤V _I ≤-27V	25°C	50	250	mV	
		-16V≤V _I ≤-27V	25°C	40	200	mV	
Quiescent Current	I _Q		25°C		6.5	mA	
Quiescent Current Change	ΔI _Q	-16V≤V _I ≤-27V	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	80		μV/V _O	
Ripple Rejection	RR	-15V≤V _I ≤-25V, f=120Hz	0-125°C	37	42	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

