

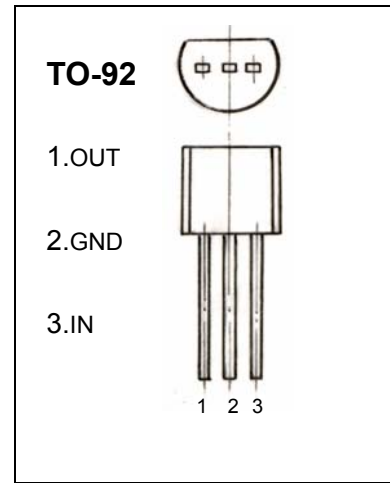


**TO-92 Encapsulate Three-terminal Voltage Regulators**

**CJ78L18** Three-terminal positive voltage regulator

**FEATURES**

- Maximum output current  
I<sub>OM</sub>: 0.1 A
- Output voltage  
V<sub>O</sub>: 18 V
- Continuous total dissipation  
P<sub>D</sub>: 0.625 W



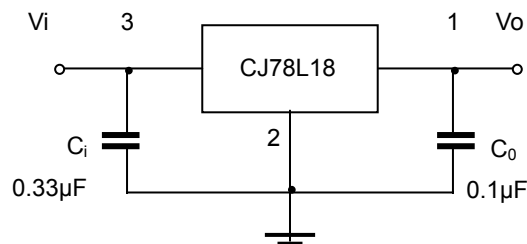
**ABSOLUTE MAXIMUM RATINGS(Operating temperature range applies unless otherwise specified)**

Parameter	Symbol	Value	Unit
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 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (V<sub>i</sub>=26V, I<sub>o</sub>=40mA, C<sub>i</sub>=0.33μF, C<sub>o</sub>=0.1μF, unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V <sub>o</sub>	25°C	17.3	18	18.7	V	
		0-125°C	20.5V ≤ V <sub>i</sub> ≤ 33V, I <sub>o</sub> = 1mA-40mA	17.1	18	18.9	V
			V <sub>i</sub> = 26V, I <sub>o</sub> = 1mA-70mA	17.1	18	18.9	V
Load Regulation	ΔV <sub>o</sub>	I <sub>o</sub> = 1mA-100mA, V <sub>i</sub> = 26V	25°C	27	180	mV	
		I <sub>o</sub> = 1mA-40mA, V <sub>i</sub> = 26V	25°C	19	90	mV	
Line Regulation	ΔV <sub>o</sub>	20.5V ≤ V <sub>i</sub> ≤ 33V, I <sub>o</sub> = 40mA	25°C	70	360	mV	
		22V ≤ V <sub>i</sub> ≤ 33V, I <sub>o</sub> = 40mA	25°C	64	300	mV	
Quiescent Current	I <sub>q</sub>	25°C		4.7	6.5	mA	
Quiescent Current Change	ΔI <sub>q</sub>	22V ≤ V <sub>i</sub> ≤ 33V, I <sub>o</sub> = 40mA	0-125°C		1.5	mA	
	ΔI <sub>q</sub>	1mA ≤ I <sub>o</sub> ≤ 40mA, V <sub>i</sub> = 26V	0-125°C		0.1	mA	
Output Noise Voltage	V <sub>N</sub>	10Hz ≤ f ≤ 100KHz	25°C	89		μV	
Ripple Rejection	RR	21.5V ≤ V <sub>i</sub> ≤ 31.5V, f = 120Hz	0-125°C	32	36	dB	
Dropout Voltage	V <sub>d</sub>	T <sub>j</sub> = 25°C	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.