

# Positive Voltage Regulator

## 3 Terminal

**multicomp**PRO

**RoHS  
Compliant**



### Features

- Maximum output current:  $I_{OM}=0.1A$ .
- Output voltage:  $V_O=12V$
- Continuous total dissipation:  $P_D=0.625W$

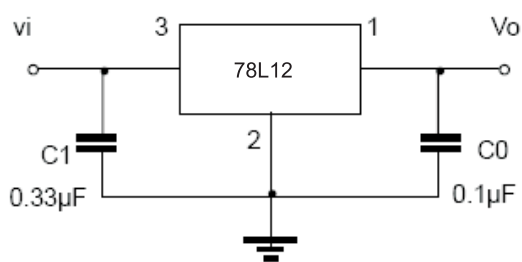
### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating
Input Voltage	$V_I$	35V
Operating Junction Temperature Range	$T_{OPR}$	$-55^{\circ}C$ to $+125^{\circ}C$
Storage Temperature Range	$T_{STG}$	$-55^{\circ}C$ to $+150^{\circ}C$

### Electrical Characteristics ( $V_I=19V$ , $I_O=40mA$ , $0^{\circ}C < T_J < 125^{\circ}C$ , $C_i=0.33\mu F$ , $C_o=0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Output voltage	Vo	Tj=25°C	11.5	12	12.5	V
		14V≤Vi≤27V, Io=1mA-40mA	11.4		12.6	
		Io=1mA-70mA				
Load regulation	△Vo	Tj=25, Io=1mA-100mA		22	100	mV
		Tj=25°C, Io=1mA-40mA		13	50	
Line regulation	△Vo	14.5V≤Vi≤27V, Tj=25°C		55	250	
		16V≤Vi≤24V, Tj=25°C		49	200	
Quiescent current	Iq	Tj=25°C		4.3	6.5	mA
Quiescent current change	△Iq	16V≤Vi≤27V			1.5	
		1mA≤Io≤40mA			0.1	
Output noise voltage	VN	10Hz≤f≤100KHz		70		uV
Ripple rejection	RR	15V≤Vi≤25V, f=120Hz, Tj=25°C	37	42		dB
Dropout voltage	Vd	Tj=25°C		1.7		V

### Typical Application



Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

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Description	Part Number
Positive Voltage Regulator, Fixed, 12V, 0.1A	78L12

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