Positive Voltage Regulator 3 Terminal





RoHS Compliant

Features

- Maximum output current:Iom=0.1A
- Output voltage:Vo=15V
- Continuous total dissipation:PD:=0.625W (Ta = 25°C)

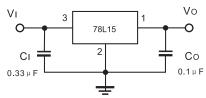
Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Rating
Input Voltage	Vı	35V
Operating Junction Temperature Range	Topr	-55°C to +125°C
Storage Temperature Range	Тѕтс	-55°C to +150°C

Electrical Characteristics (Vi=23V, Io=40mA, Ci=0.33µF, Co=0.1µF, unless otherwise specified)

Parameter	Symbol	Testconditons	Min	Тур	Max	Unit
Output voltage	Vo	Tj=25°C	14.4		15.6	V
		Tj=0°C to 25°C, 17.5V≤Vı≤30V, Io=1mA-40mA	14.25	15	15.75	
		Tj=0°C to 25°C, Vi=23V, Io=1mA-70mA				
Load regulation	△Vo	Tj=25, Vi=23V, Io=1mA-100mA		25	150	mV
		Tj=25°C, V=23V, Io=1mA-40mA		15	75	
Line regulation	△Vo	Tj=25°C, 17.5V≤Vı≤30V, Io = 40mA		65	300	
		Tj=25°C, 19V≤Vı≤30V, Io = 40mA		58	250	
Quiescent current	lα	Tj=25°C,		4.6	6.5	
Quiescent current change	Δla	Tj=0°C to 25°C, 19V≤Vı≤30V, lo = 40mA			1.5	mA
		Tj=0°C to 25°C, Vi=23V, 1mA≤ lo≤40mA			0.1	
Output noise voltage	Vn	Tj=25°C, 10Hz≤f≤100KHz		82		μV
Ripple rejection	RR	Tj=0°C to 25°C, 18.5V≤Vı≤28.5V, f=120Hz	34	39		dB
Dropout voltage	Vd	Tj=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.

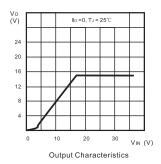
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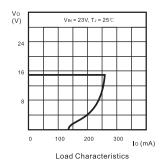


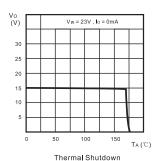
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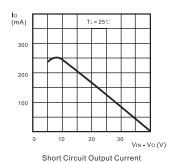
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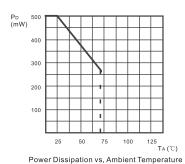
Typical Characteristics



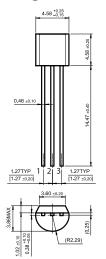








Diagram





- 1 OUT 2 GND
- 3 IN

Part Number Table

Description	Part Number		
Positive Voltage Regulator, Fixed, 15V, 0.1A	78L15		

Dimensions : Millimetres

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