multicomp PRO

RoHS Compliant

Features

- Maximum output current:Iом=0.1A.
- Output voltage:Vo=9V
- Continuous total dissipation:PD:=0.625W

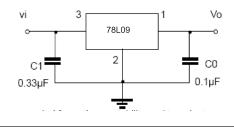
Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating
Input Voltage	Vı	30V
Operating Junction Temperature Range	Topr	-55°C to +125°C
Storage Temperature Range	Tstg	-55°C to +150°C

Electrical Characteristics (VI=10V, Io=40mA, 0°C <Tj<125°C,C1=0.33µ F, Co=0.1 µ F, unless otherwise specified)

Parameter	Symbol	Testconditons	Min	Тур	Max	Unit
Output voltage	Vo	Tj=25°C	8.64 8.55		9.36	
		12V≤Vı≤24V, Io=1mA-40mA		9	9.45	V
		lo=1mA-70mA				
Load regulation	∆Vo	Tj=25, Io=1mA-100mA		19	90	mV
		Tj=25°C, lo=1mA-40mA		11	40	
Line regulation	∆Vo	12V≤VI≤24V, Tj=25°C		45	175	
		13V≤VI≤24V, Tj=25°C		40	125	
Quiescent current	lq			4.1	6	
Quiescent current change	∆lq	13V≤VI≤24V			1.5	mA
		1mA≤lo≤40mA			0.1	
Output noise voltage	rianglelq	10Hz≤f≤100KHz		58		uV
Ripple rejection	VN	15V≤Vı≤25V, f=120Hz, Tj=25°C	41	45		dB
Dropout voltage	Vd	Tj=25°C		1.7		V

Typical Application

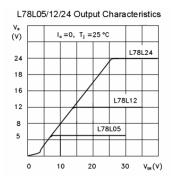


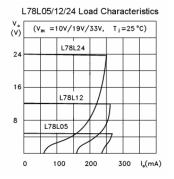
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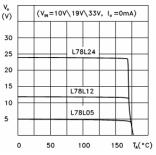
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Typical Characteristics

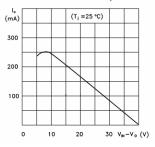




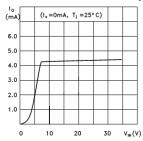




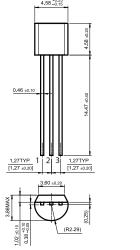
L78L00 Series Short Circuit Output Current



L78L05 Quiescent Current vs Input Voltage



Diagram



1 OUT 2 GND 3 IN

Part Number Table

Description	Part Number		
Positive Voltage Regulator, Fixed, 9V, 0.1A	78L09		

Dimensions : Millimetres

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