

TO-92 Three-terminal positive voltage regulator

FEATURES

- Maximum output current I_{OM}: 0.1A

- Output voltage V_O: -9V

- Continuous total dissipation

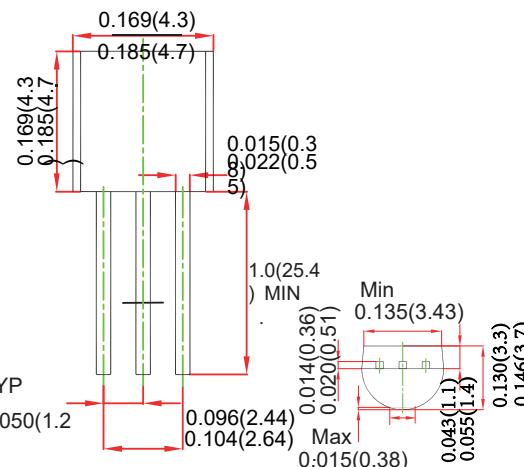
P_D: 0.625 W (T_a = 25 °C)

MECHANICAL DATA

- Case: TO-92 Small Outline Plastic Package

- Polarity: Color band denotes cathode end

- Mounting Position: Any



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherwise specified)

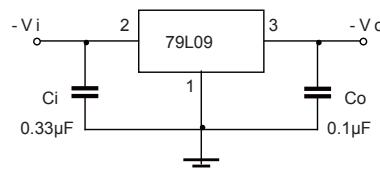
Parameter	Symbol	Value	Unit
Input Voltage	V _i	-30	V
Thermal Resistance from Junction to Ambient	R _{θJA}	200	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
(V_I=-16V,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	-8.64	-9.0	-9.36	V
		-12V≤V _I ≤-24V, I _O =1mA-40mA	0-125°C	-8.55	-9.0	-9.45	V
		I _O =1mA-70mA		-8.55	-9.0	-9.45	V
Load Regulation	ΔV _O	I _O =1mA-100mA	25°C	19	90	mV	
		I _O =1mA-40mA	25°C	11	40	mV	
Line Regulation	ΔV _O	-12 V≤V _I ≤-24V	25°C	45	175	mV	
		-13V≤V _I ≤-24V	25°C	40	125	mV	
Quiescent Current	I _Q		25°C	4.1	6.0	mA	
Quiescent Current Change	ΔI _Q	-13V≤V _I ≤-24V	0-125°C		1.5	mA	
	ΔI _Q	1mA≤V _I ≤40mA	0-125°C		0.1	mA	
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C	58		μV/V _O	
Ripple Rejection	RR	-15V≤V _I ≤-24V,f=120Hz	0-125°C	45		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

