

VS79L09 Three-terminal negative voltage regulator

FEATURES

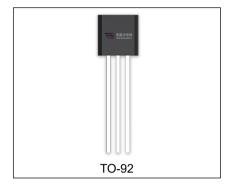
Maximum output current

I_{OM:} 0.1A

Output voltage V_o:-9V

Continuous total dissipation

P_D:0.625 W (T_a= 25 °C)



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
VS79L09	TO-92	Bulk	1000pcs/Bag
VS79L09-TA	TO-92	Tape	2000pcs/Box

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}	-40~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

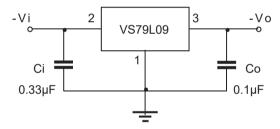


(Vi=-16V,lo=40mA,Ci=0.33 μ F,Co=0.1 μ F, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _J =25℃	-8.73	-9.0	-9.27	V
		-12V≤V ≤-24V, lo=1mA-40mA	-8.55	-9.0	-9.45	V
		Io=1mA-70mA	-8.55	-9.0	-9.45	V
Load Regulation	∆Vo	lo=1mA-100mA ,T _J =25℃		19	90	mV
		lo=1mA-40mA ,T _J =25℃		11	40	mV
Line Regulation	ΔVo	-12 V≤V _I ≤-24V ,T _J =25°C		45	175	mV
		-13V≤V _I ≤-24V ,T _J =25°C		40	125	mV
Quiescent Current	Iq	T _J =25°C		4.1	6.0	mA
Quiescent Current Change	∆lq	-13V≤V _I ≤-24V			1.5	mA
	∆lq	1mA≤V _I ≤40mA			0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz ,T _J =25°C		58		μV/Vo
Ripple Rejection	RR	-15V≤V _I ≤-24V,f=120Hz		45		dB
Dropout Voltage	Vd	TJ=25℃		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



