

VS79L06 Three-terminal negative voltage regulator

FEATURES

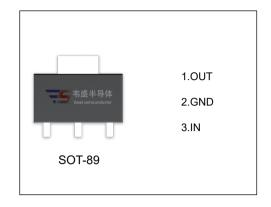
• Maximum output current

I_{OM:} 0.1A

Output voltage

V₀: -6V • Continuous total dissipation

 $P_D:0.6 \text{ W } (T_a=25 ^{\circ}\text{C})$



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

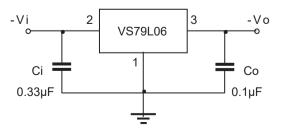
Parameter	Symbol	Value	Unit
Input Voltage	Vi	-30	V
Thermal Resistance from Junction to Ambient	R _{θJA}	208.3	°C/W
Operating Junction Temperature Range	T _{OPR}	-40~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (VI=-11V,Io=40mA,Ci=0.33µF,Co=0.1µF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _J =25℃	-5.82	-6.0	-6.18	V
		-8V≤V _I ≤-20V, Io=1mA~40mA	-5.7	-6.0	-6.3	V
		lo=1mA~70mA	-5.7	-6.0	-6.3	V
Load Regulation	ΔVο	lo=1mA~100mA ,TJ=25℃		21	80	mV
		lo=1mA~40mA ,T _J =25℃		11	40	mV
Line Regulation	ΔVο	-8V≤V _I ≤-20V ,T _J =25°C		20	175	mV
		-9V≤V _I ≤-20V ,T _J =25°C		15	125	mV
Quiescent Current	Iq	T _J =25℃		3.9	6.0	mA
Quiescent Current Change	Δlq	-9V≤V _I ≤-20V			1.5	mA
	Δlq	1mA≤V _I ≤40mA			0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz ,T _J =25°C		44		μV/Vo
Ripple Rejection	RR	-9V≤V _I ≤-19V,f=120HZ	40	48		dB
Dropout Voltage	Vd	T _J =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 possible to the regulators.



