

VS79L12 Three-terminal negative voltage regulator

FEATURES

Maximum output current

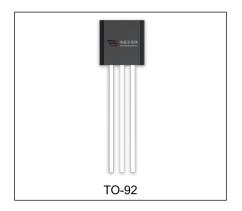
I_{OM:} 0.1A

Output voltage

V_o:-12V

Continuous total dissipation

P_D:0.625 W (T_a= 25 °C)



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
VS79L12	TO-92	Bulk	1000pcs/Bag
VS79L12-TA	TO-92	Tape	2000pcs/Box

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

<u> </u>							
Parameter	Symbol	Value	Unit				
Input Voltage	Vi	-35	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	$^{\circ}$				

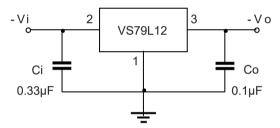


 $\textbf{T}_{a}\textbf{=25} \text{ } \textcircled{c} \text{ unless otherwise specified } \text{ } \text{(Vi=-19V,lo=40mA,Ci=0.33} \\ \mu\text{F,Co=0.1} \\ \mu\text{F, unless otherwise specified)} \\$

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _J =25℃	-11.64	-12	-12.36	V
		-14.5V≤V _I ≤-27V, Io=1mA~40mA	-11.4	-12	-12.6	V
		Io=1mA~70mA	-11.4	-12	-12.6	V
Load Regulation	ΔVο	lo=1mA~100mA ,T _J =25°C		24	100	mV
		lo=1mA~40mA ,T _J =25℃		15	50	mV
Line Regulation	ΔVο	-14.5V≤V _I ≤-27V ,T _J =25°C		50	250	mV
		-16V≤V _I ≤-27V ,T _J =25°C		40	200	mV
Quiescent Current	Iq	T _J =25℃			6.5	mA
Quiescent Current Change	Δlq	-16V≤V _I ≤-27V			1.5	mA
	Δlq	1mA≤l _O ≤40mA			0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz ,T _J =25°C		80		μV/Vo
Ripple Rejection	RR	-15V≤V _I ≤-25V,f=120Hz	37	42		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 as possible to the regulators.



