

VS79L05 Three-terminal negative voltage regulator

FEATURES

Maximum output current

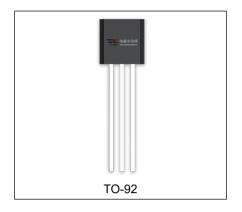
I_{OM:} 0.1A

Output voltage

V_o: -5V

Continuous total dissipation

P_D:0.625 W (T_a= 25 °C)



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
VS79L05	TO-92	Bulk	1000pcs/Bag
VS79L05-TA	TO-92	Tape	2000pcs/Box

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

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Parameter	Symbol	Value	Unit			
Input Voltage	Vi	-30	V			
Thermal Resistance from Junction to Ambient	R _{0JA}	200	°C/W			
Operating Junction Temperature Range	T _{OPR}	-40~+125	℃			
Storage Temperature Range	T _{STG}	-65~+150	$^{\circ}$			

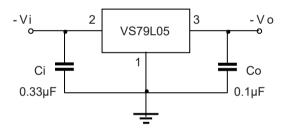


 $\textbf{T}_{a}\textbf{=25} \overset{\circ}{\subset} \textbf{ unless otherwise specified (VI=-10V,Io=40mA,Ci=0.33~\mu F,Co=0.1\mu F, unless otherwise specified)}$

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _J =25℃	-4.85	-5.0	-5.15	V
		-7V≤V _I ≤-20V, Io=1mA~40mA	-4.75	-5.0	-5.25	V
		Io=1mA~70mA	-4.75	-5.0	-5.25	V
Load Regulation	ΔVο	lo=1mA~100mA ,T _J =25°C		20	60	mV
		lo=1mA~40mA ,TJ=25℃		10	30	mV
Line Regulation	ΔVο	-7V≤V _I ≤-20V ,T _J =25°C		15	150	mV
		-8V≤V _I ≤-20V ,T _J =25°C		12	100	mV
Quiescent Current	Iq	T _J =25℃			6	mA
Quiescent Current Change	Δlq	-8V≤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		40		μV/Vo
Ripple Rejection	RR	-8V≤V _I ≤-18V,f=120Hz	41	49		dB
Dropout Voltage	Vd	T _J =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.



