

VS7908 Three-terminal negative voltage regulator

FEATURES

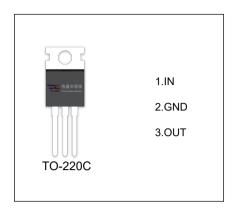
Maximum output current

I_{OM}: 1.5 Å

Output voltage V_O:- 8V

Continuous total dissipation

 P_D : 1.5 W $(T_a = 25 °C)$



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

Parameter	Symbol	Value	Unit
Input Voltage	V _i	-35	V
Thermal Resistance from Junction to Air	R _{θJA}	83.3	°C/W
Operating Junction Temperature Range	T _{OPR}	-40~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	℃

$\textbf{ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE} (Vi=-14V, lo=500 \text{mA}, Ci=2.2 \mu\text{F}, Co=1 \mu\text{F}, unless otherwise specified})$

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage	\/-	T _J =25℃	-7.76	-8	-8.24	V
	Vo	-10.5V≤Vi≤-23V,Io=5mA-1A	-7.6	-8	-8.4	V
Load Regulation	ΔVο	lo=5mA-1.5A ,T _J =25°C		15	160	mV
	Δνο	Io=250mA-750mA ,T _J =25°C		5	80	mV
Line Regulation	ΔVο	-10.5V≤Vi≤-25V ,T _J =25°C		12.5	160	mV
	Δνο	-11V≤Vi≤-17V ,T _J =25°C		4	80	mV
Quiescent Current	lq	T _J =25℃		1.5	2	mA
Quiescent Current Change —	Δlq	-10.5V≤Vi≤-25V			1	mA
	Δlq	5mA≤l _O ≤1A			0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz ,T _J =25°C		200		μV/Vo
Output Voltage drift	$\triangle Vo/\triangle_T$	I _O =5mA		-0.6		mV/°C
Ripple Rejection	RR	-11.5V≤Vi≤-21.5V,f=120Hz	54	60		dB
Dropout Voltage	Vd	lo=1A ,T _J =25℃		1.1		V
Peak Current	lpk	T _J =25℃		2.1		Α

^{*} Pulse test.

TYPICAL APPLICATION

