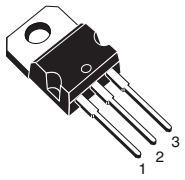
南京集正电子有限公司
NanJing JiZheng Electronics Co.,Ltd

TO-220 Plastic-Encapsulate Voltage Regulators

L7912 C V Three-terminal negative voltage regulator

TO-220



FEATURES

Maximum output current I_{OM}: 1.5 A
Output voltage V_o: - 12 V
Continuous total dissipation
P_D: 1.5 W (T_a = 25℃)
15 W (T_C= 25℃)

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 Ambient	$R_{\theta JA}$	83.3	℃/W
Thermal Resistance from Junction to Case	$R_{\theta JC}$	8.33	℃/W
Operating Junction Temperature Range	T_{OPR}	0~+150	℃
Storage Temperature Range	T_{STG}	-55~+150	℃

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (Vi=-19V,Io=500mA, C_i=2.2μF,Co=1μF, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25℃	-11.5	-12	-12.5	V
		-14.5V≤V_i≤-27V, Io=5mA-1A P≤15W	0-125℃	-11.4	-12	-12.6	V
Load Regulation	ΔVo	Io=5mA-1.5A	25℃		15	200	mV
		Io=250mA-750mA	25℃		5	75	mV
Line Regulation	ΔVo	-14.5V≤V_i≤-30V	25℃		5	80	mV
		-16V≤V_i≤-22V	25℃		3	30	mV
Quiescent Current	Iq		25℃		2	3	mA
Quiescent Current Change	ΔIq	-14.5V≤V_i≤-30V	0-125℃			0.5	mA
	ΔIq	5mA≤I_O≤1A	0-125℃			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		300		μV
Output Voltage Drift	△Vo/△T	I_O=5mA	0-125℃		-0.8		mV/℃
Ripple Rejection	RR	-15V≤V_i≤-25V,f=120Hz	0-125℃	54	60		dB
Dropout Voltage	Vd	Io=1A	25℃		1.1		V
Peak Current	Ipk		25℃		2.1		A

TYPICAL APPLICATION