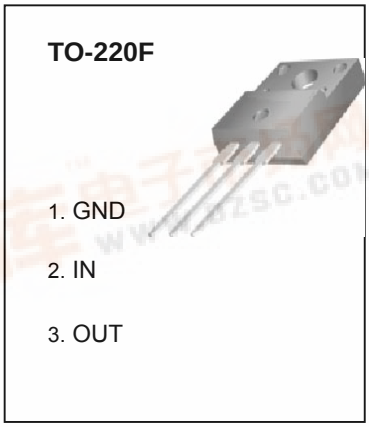
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220F Plastic-Encapsulate Voltage Regulator

CJ7908F Three-terminal negative voltage regulator



FEATURES

Maximum Output Current

I_{OM}: 1.5 A

Output voltage

V_o: -8 V

ABSOLUTE MAXIMUM RATINGSO (perating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	0-+150	℃
Storage Temperature Range	T_{STG}	-65-+150	℃

ELECTRICAL CHARACTERISTICS (Vi=-14V, Io= 500mA, 0℃<T_J<125℃,Ci=2μF, Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	T_J=25℃	-7.7	-8	-8.3	V
		-10.5V≤V_i≤-23V, Io=5mA-1A P≤15W	-7.6	-8	-8.4	V
Load Regulation	ΔVo	T_J =25℃, Io=5mA-1.5A		15	160	mV
		T_J =25℃, Io=250mA-750mA		5	80	mV
Line regulation	ΔVo	-10.5V≤V_i≤-25V, T_J =25℃		12.5	160	mV
		-11V≤V_i≤-17V, T_J =25℃		4	80	mV
Quiescent Current	Iq	T_J =25℃		1.5	2	mA
Quiescent Current Change	ΔIq	-10.5V≤V_i≤-25V		0.15	1	mA
	ΔIq	5mA≤I_O≤1A		0.08	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		200		μV
Ripple Rejection	RR	-11.5V≤V_i≤-21.5V, f=120Hz, T_J =25℃	54	60		dB
Dropout Voltage	Vd	T_J =25℃, Io=1A		1.1		V
Peak Current	Ipk	T_J =25℃		2.1		A

TYPICAL APPLICATION