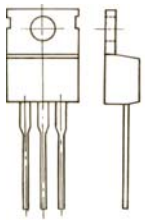
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220 Encapsulate Voltage Regulator

CJ7908 Three-terminal positive voltage regulator

TO—220



1 GND

2. .IN

3.OUT

1 2 3

FEATURES

Maximum Output current

I_{OM}: 1.5 A

Output voltage

V_o : -8 V

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

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	-20-+125	℃
Storage Temperature Range	T_{STG}	-55-+150	℃

ELECTRICAL CHARACTERISTICS(Vi=-23V,Io=500mA,0℃<Tj<125℃,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

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

TYPICAL APPLICATION

