



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220 Encapsulate Voltage Regulator

CJ7918 Three-terminal positive voltage regulator

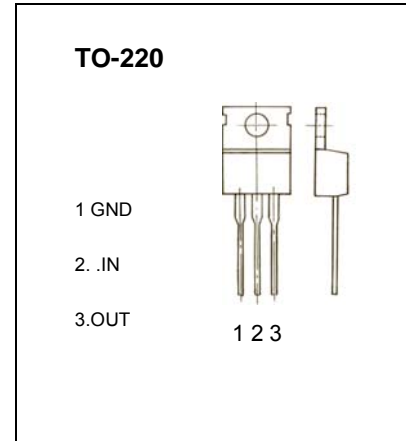
FEATURES

Maximum Output current

I_{OM} : 1.5 A

Output voltage

V_o : -18 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	°C
Storage Temperature Range	T_{STG}	-55-+150	°C

ELECTRICAL CHARACTERISTICS($V_i=-23V, I_o=500mA, 0^\circ C < T_j < 125^\circ C, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^\circ C$	-17.3	-18	-18.7	V
		$-21V \leq V_i \leq -33V, I_o=5mA-1A$ $P_o < 15W$	-17.1	-18	-18.9	V
Load Regulation	ΔV_o	$T_j=25^\circ C, I_o=5mA-1.5A$		30	360	mV
		$T_j=25^\circ C, I_o=250mA-750mA$		10	180	mV
Line regulation	ΔV_o	$-21V \leq V_i \leq -33V, T_j=25^\circ C$		30	360	mV
		$-24V \leq V_i \leq -30V, T_j=25^\circ C$		10	180	mV
Quiescent Current	I_q	$T_j=25^\circ C$		2	3	mA
Quiescent Current Change	ΔI_q	$-21V \leq V_i \leq -33V$			1	mA
	ΔI_q	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		450		μV
Ripple Rejection	RR	$-22V \leq V_i \leq -32V, f=120Hz, T_j=25^\circ C$	54	60		dB
Dropout Voltage	V_d	$T_j=25^\circ C, I_o=1A$		1.1		V
Peak Current	I_{pk}	$T_j=25^\circ C$		2.1		A

TYPICAL APPLICATION

