



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220F Plastic-Encapsulate Voltage Regulator

CJ7906F Three-terminal negative voltage regulator

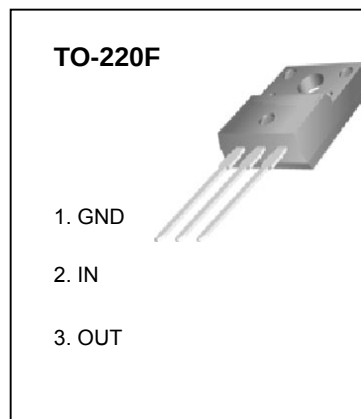
FEATURES

Maximum Output Current

I_{OM} : 1.5 A

Output voltage

V_o : -6 V



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

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	0-+125	°C
Storage Temperature Range	T_{STG}	-55-+150	°C

ELECTRICAL CHARACTERISTICS ($V_i=-11V$, $I_o= 500mA$, $0^{\circ}C<T_J<125^{\circ}C$, $C_i=2\mu F$, $C_o=1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_J=25^{\circ}C$	-5.75	-6	-6.25	V
		$-8V \leq V_i \leq -21V$, $I_o=5mA-1A$ $P \leq 15W$	-5.7	-6	-6.3	V
Load Regulation	ΔV_o	$T_J = 25^{\circ}C$, $I_o=5mA-1.5A$		15	120	mV
		$T_J = 25^{\circ}C$, $I_o=250mA-750mA$		5	60	mV
Line regulation	ΔV_o	$-8V \leq V_i \leq -25V$, $T_J = 25^{\circ}C$		12.5	120	mV
		$-9V \leq V_i \leq -13V$, $T_J = 25^{\circ}C$		4	60	mV
Quiescent Current	I_q	$T_J = 25^{\circ}C$		1.5	2	mA
Quiescent Current Change	ΔI_q	$-8V \leq V_i \leq -25V$			1.3	mA
	ΔI_q	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		150		μV
Ripple Rejection	RR	$-9V \leq V_i \leq -19V$, $f=120Hz$, $T_J = 25^{\circ}C$	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

