



TO-220F Plastic-Encapsulate Voltage Regulator

CJ7915F Three-terminal negative voltage regulator

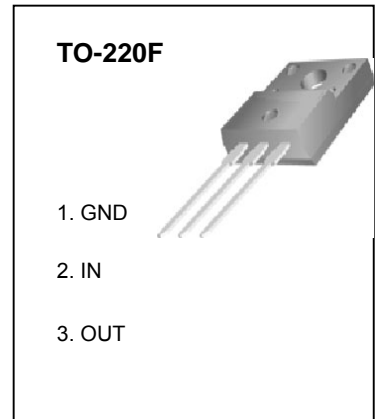
FEATURES

Maximum Output Current

I_{OM} : 1.5 A

Output voltage

V_o : -15 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}	0-+125	°C
Storage Temperature Range	T_{STG}	-55-+150	°C

ELECTRICAL CHARACTERISTICS ($V_i=-23V, I_o= 500mA, 0^{\circ}C < T_J < 125^{\circ}C, C_i=2 \mu F, C_o=1 \mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_J=25^{\circ}C$	-14.4	-15	-15.6	V
		$-17.5V \leq V_i \leq -30V, I_o=5mA-1A P \leq 15W$	-14.25	-15	-15.75	V
Load Regulation	ΔV_o	$T_J=25^{\circ}C, I_o=5mA-1.5A$		15	200	mV
		$T_J=25^{\circ}C, I_o=250mA-750mA$		5	75	mV
Line regulation	ΔV_o	$-17.5V \leq V_i \leq -30V, T_J=25^{\circ}C$		5	100	mV
		$-20V \leq V_i \leq -26V, T_J=25^{\circ}C$		3	50	mV
Quiescent Current	I_q	$T_J=25^{\circ}C$		2	3	mA
Quiescent Current Change	ΔI_q	$-17.5V \leq V_i \leq -30V$			0.5	mA
	ΔI_q	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		375		μV
Ripple Rejection	RR	$-18.5V \leq V_i \leq -28.5V, f=120Hz, T_J=25^{\circ}C$	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

