

WEJ7912 Three-terminal positive voltage regulator

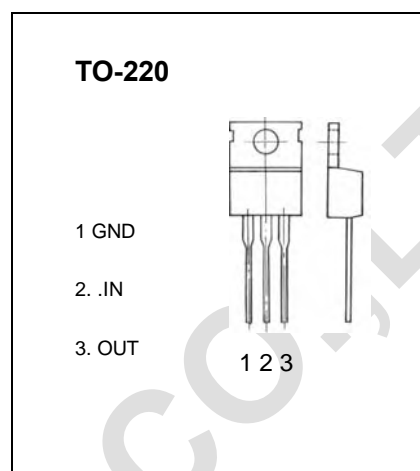
FEATURES

Maximum Output current

I_{OM} : 1.5 A

Output voltage

V_o : -12 V



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

Parameter	Symbol	Value	Unit
Input Voltage	V_i	-30	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	$T_j=25^\circ C$	-11.5	-12	-12.5	V
		$-14.5V \leq V_i \leq -27V, I_o=5mA \sim 1A, P_o < 15W$	-11.4	-12	-12.6	V
Load Regulation	ΔV_o	$T_j=25^\circ C, I_o=5mA \sim 1.5A$		15	200	mV
		$T_j=25^\circ C, I_o=250mA \sim 750mA$		5	75	mV
Line regulation	ΔV_o	$-14.5V \leq V_i \leq -30V, T_j=25^\circ C$		5	80	mV
		$-16V \leq V_i \leq -22V, T_j=25^\circ C$		3	30	mV
Quiescent Current	I_q	$T_j=25^\circ C$		2	3	mA
Quiescent Current Change	ΔI_q	$-14.5V \leq V_i \leq -30V$			0.5	mA
	ΔI_q	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		300		μV
Ripple Rejection	RR	$-15V \leq V_i \leq -25V, f=120Hz, T_j=25^\circ C$	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

