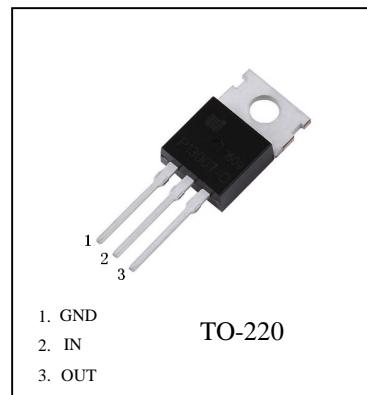


FEATURES

- Output Current up to 1.5 A
- Thermal Overload Protection
- Short Circuit Protection
- Output Transistor Safe Operating Area Protection

7909



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies)

Parameter	Symbol	Value	Unit
Input Voltage	V _i	-35	V
Thermal resistance junction-air	R _{JA}	65	°C/W
Thermal resistance junction-cases	R _{JC}	5	°C/W
Operating Junction Temperature Range	TOPR	0-125	°C
Storage Temperature Range	TSTG	-65-150	°C

ELECTRICAL CHARACTERISTICS (V_i=10V,I_o=500mA,C_i=0.33μF,C_o=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V _o	T _J =25°C	-8.64	-9	-9.36	V
		-11.5V≤V _i ≤-24V,I _o =5mA-1A,P≤15W	-8.55	-9	-9.45	V
Load Regulation	ΔV _o	T _J =25°C, I _o =5mA-1.5A			180	mV
		T _J =25°C, I _o =250mA-750mA			80	mV
Line regulation	ΔV _o	-11.5V≤V _i ≤-26V, T _J =25°C			140	mV
		-13V≤V _i ≤-19V, T _J =25°C			70	mV
Quiescent Current	I _q	T _J =25°C		1.6	2.6	mA
Quiescent Current Change	ΔI _q	-11.5V≤V _i ≤-26V			1	mA
	ΔI _q	5mA≤I _o ≤1A			0.5	mA
Ripple Rejection	RR	-12.5V≤V _i ≤-22.5V,f=120Hz	54	60		dB
Dropout Voltage	V _d	T _J =25°C, I _o =1A		1.1		V
Peak output Current	I _{pk}	T _J =25°C		2.1		A