

Three-terminal positive voltage regulator

FEATURES

- Maximum output current I_{OM}: 1.5 A

- Output voltage V_O: -15V

- Continuous total dissipation

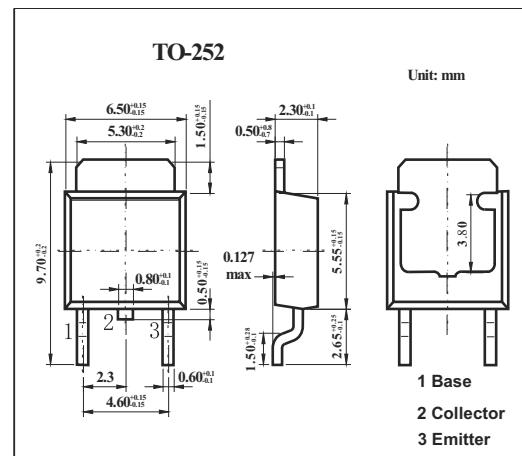
PD: 1.25 W (T_a = 25 °C)

MECHANICAL DATA

- Case: TO-252 Small Outline Plastic Package

- Polarity: Color band denotes cathode end

- Mounting Position: Any



ABSOLUTE MAXIMUM RATINGS

(Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V _i	-35	V
Thermal Resistance Junction-Air	R _{θJA}	100	°C/W
Thermal Resistance Junction-Case	R _{θJC}	10	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

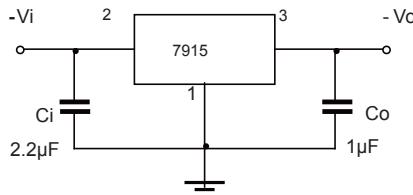
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

(V_i=-23V, I_O=500mA, C_i=2.2μF, C_O=1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V _O	25°C	-14.4	-15	-15.6	V
		-17.5V≤V _i ≤-30V, I _O =5mA-1A	0-125°C	-14.25	-15	-15.75
Load regulation	ΔV _O	I _O =5mA-1.5A	25°C	15	200	mV
		I _O =250mA-750mA	25°C	5	75	mV
Line regulation	ΔV _O	-17.5V≤V _i ≤-30V	25°C	5	100	mV
		-20V≤V _i ≤-26V	25°C	3	50	mV
Quiescent current	I _Q		25°C	2	3	mA
Quiescent current change	ΔI _Q	-17.5V≤V _i ≤-30V	0-125°C		0.5	mA
	ΔI _Q	5mA≤I _O ≤1A	0-125°C		0.5	mA
Output noise voltage	V _N	10Hz≤f≤100KHz	25°C	375		μV/V _O
Output voltage drift	△V _O /△T	I _O =5mA	0-125°C	-1		mV/°C
Ripple rejection	RR	-18.5V≤V _i ≤-28.5V, f=120Hz	0-125°C	54	60	dB
Dropout voltage	V _D	I _O =1A	25°C		1.1	V
Peak current	I _{PK}		25°C		2.1	A
Short circuit current	I _{SC}	V _i =-35V	25°C		300	mA

* Pulse test.

TYPICAL APPLICATION



RATINGS AND CHARACTERISTIC CURVES

TYPICAL APPLICATION

