

TO-252 Three-terminal positive voltage regulator

FEATURES

- Maximum output current I_{OM}: 1.5 A

- Output voltage V_O: -8V

- Continuous total dissipation

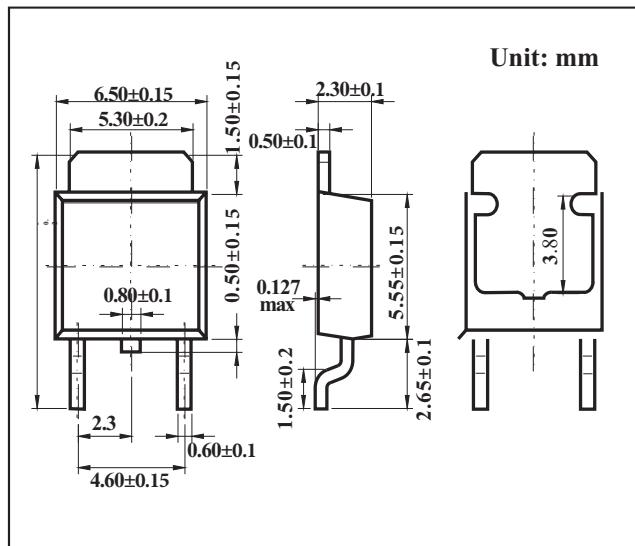
P_D: 1.25 W (T_a= 25 °C)

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 from Junction to Air	R _{θJA}	100	°C/W
Operating Junction Temperature Range	T _{OPR}	0~+150	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION

TEMPERATURE(V_i=-14V,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	-7.68	-8	-8.32	V
		-10.5V≤V _i ≤-23V,I _O =5mA-1A	0-125°C	-7.6	-8	-8.4
Load Regulation	ΔV _O	I _O =5mA-1.5A	25°C	15	160	mV
		I _O =250mA-750mA	25°C	5	80	mV
Line Regulation	ΔV _O	-10.5V≤V _i ≤-25V	25°C	12.5	160	mV
		-11V≤V _i ≤-17V	25°C	4	80	mV
Quiescent Current	I _Q		25°C	1.5	2	mA
Quiescent Current Change	ΔI _Q	-10.5V≤V _i ≤-25V	0-125°C		1	mA
	ΔI _Q	5mA≤I _O ≤1A	0-125°C		0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C	200		μV/V _O
Output Voltage drift	△V _O /△T	I _O =5mA	0-125°C		-0.6	mV/°C
Ripple Rejection	RR	-11.5V≤V _i ≤-21.5V,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

* Pulse test.

TYPICAL APPLICATION

