

TO-252 Three-terminal positive voltage regulator

FEATURES

- Maximum output current I_{OM}: 1.5 A

- Output voltage V_O: -5V

- Continuous total dissipation

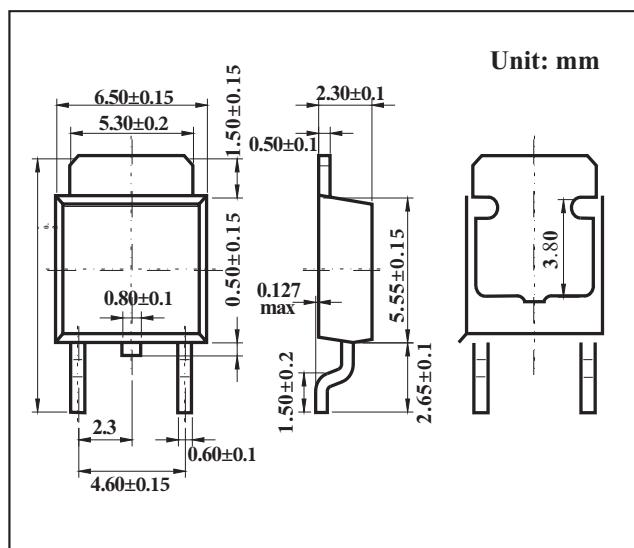
PD: 1.25 W (T_a = 25 °C)

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 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=-10V, 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	-4.8	-5	-5.2	V
		-7V≤V _i ≤-20V, I _O =5mA-1A	0-125°C	-4.75	-5	-5.25	V
Load Regulation	ΔV _O	I _O =5mA-1.5A	25°C		15	100	mV
		I _O =250mA-750mA	25°C		5	50	mV
Line Regulation	ΔV _O	-7V≤V _i ≤-25V	25°C		12.5	50	mV
		-8V≤V _i ≤-12V	25°C		4	15	mV
Quiescent Current	I _Q		25°C		1.5	2	mA
Quiescent Current Change	ΔI _Q	-7V≤V _i ≤-25V	0-125°C		0.5	mA	
	ΔI _Q	5mA≤I _Q ≤1A	0-125°C		0.5	mA	
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C	125		μV/V _O	
Output Voltage Drift	ΔV _O /ΔT	I _O =5mA	0-125°C		-0.4	mV/°C	
Ripple Rejection	RR	-8V≤V _i ≤-18V, 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

