

Three-terminal positive voltage regulator

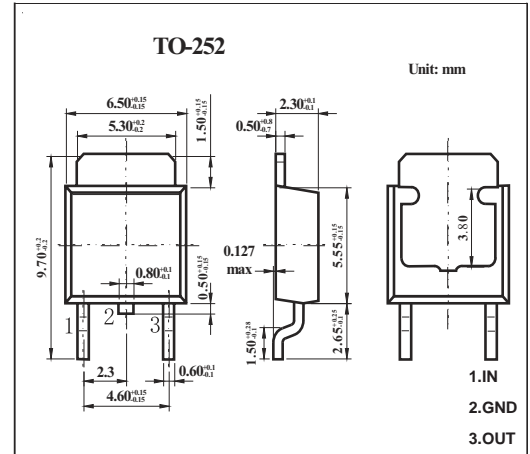
FEATURES

- Maximum output current IOM: 1.5 A
- Output voltage VO: -5V
- Continuous total dissipation

$$P_D: 1.25 W (T_a = 25 ^\circ C)$$

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	$R_{\theta JA}$	100	$^\circ C/W$
Operating Junction Temperature Range	T_{OPR}	0~+150	$^\circ C$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ C$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION

TEMPERATURE ($V_i = -10V, I_o = 500mA, C_i = 2.2\mu F, C_o = 1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V_o	25 $^\circ C$	-4.8	-5	-5.2	V	
		-7V $\leq V_i \leq$ -20V, $I_o = 5mA - 1A$	0-125 $^\circ C$	-4.75	-5	-5.25	V
Load Regulation	ΔV_o	$I_o = 5mA - 1.5A$	25 $^\circ C$		15	100	mV
		$I_o = 250mA - 750mA$	25 $^\circ C$		5	50	mV
Line Regulation	ΔV_o	-7V $\leq V_i \leq$ -25V	25 $^\circ C$		12.5	50	mV
		-8V $\leq V_i \leq$ -12V	25 $^\circ C$		4	15	mV
Quiescent Current	I_q	25 $^\circ C$		1.5	2	mA	
Quiescent Current Change	ΔI_q	-7V $\leq V_i \leq$ -25V	0-125 $^\circ C$			0.5	mA
	ΔI_q	5mA $\leq I_o \leq$ 1A	0-125 $^\circ C$			0.5	mA
Output Noise Voltage	V_N	10Hz $\leq f \leq$ 100KHz	25 $^\circ C$	125		$\mu V/V_o$	
Output Voltage Drift	$\Delta V_o / \Delta T$	$I_o = 5mA$	0-125 $^\circ C$		-0.4	mV/ $^\circ C$	
Ripple Rejection	RR	-8V $\leq V_i \leq$ -18V, $f = 120Hz$	0-125 $^\circ C$	54	60	dB	
Dropout Voltage	V_d	$I_o = 1A$	25 $^\circ C$		1.1	V	
Peak Current	I_{pk}	25 $^\circ C$			2.1	A	

* Pulse test.

TYPICAL APPLICATION

