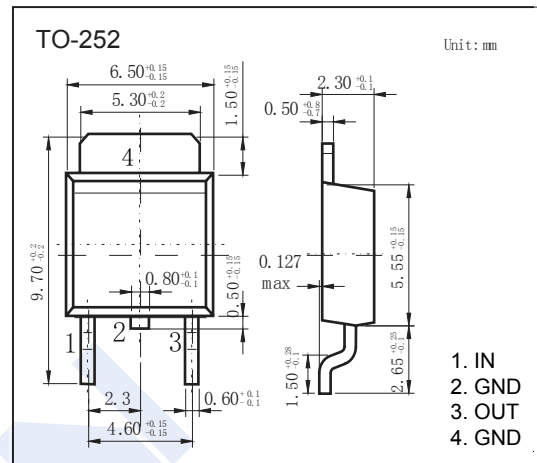


Three Terminal Positive Voltage Regulator

78M08

■ Features

- Maximum Output Current $I_o=500\text{mA}$
- Output Voltage $V_o=8\text{V}$
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- Output Transistor Safe Operating Area Protection



■ Absolute Maximum Ratings Over Operating Temperature Range(unless otherwise noted)

Parameter	Symbol	Rating	Unit
Input Voltage	V_i	35	V
Maximum Output Current	I_o	0.5	A
Operating Virtual Junction Temperature	T_J	0 to 125	°C
Storage Temperature Range	T_{stg}	-65 to 150	
Lead Temperature 1.6mm(1/16 inch) from case for 10 seconds		260	

■ Electrical Characteristics at Specified Virtual Junction Temperature, $V_i=14\text{V}$, $I_o=350\text{mA}$ (unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit	
Output Voltage	V_o		25°C	7.7	8.0	8.3	V
		$10.5\text{V} \leq V_i \leq 23\text{V}$, $I_o = 5.0\text{mA} \sim 350\text{mA}$	0 to 125°C	7.6	8.0	8.4	
Line Regulation	ΔV_o	$10.5\text{V} \leq V_i \leq 25\text{V}$, $I_o=200\text{mA}$	25°C			150	mV
		$11\text{V} \leq V_i \leq 25\text{V}$, $I_o=200\text{mA}$				75	
Load Regulation	ΔV_o	$I_o = 5.0\text{mA} \sim 500\text{mA}$	25°C			160	mV
		$I_o = 5.0\text{mA} \sim 200\text{mA}$				80	
Quiescent Current	I_q		25°C			8.0	mA
			125°C			7.5	
Quiescent Current Change	ΔI_q	$10.5\text{V} \leq V_i \leq 25\text{V}$	0 to 125°C			1.0	mA
		$5\text{mA} \leq I_o \leq 350\text{mA}$				0.5	
Output Noise Voltage	V_N	$10\text{Hz} \leq F \leq 100\text{kHz}$, $T_a=25^\circ\text{C}$	25°C		52	uV	
Ripple Rejection	R_R	$11.5\text{V} \leq V_i \leq 21.5\text{V}$, $F=120\text{Hz}$	25°C	62	80	dB	
Dropout Voltage	V_d		25°C		2	V	

* Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible.

Thermal effects must be taken into account separately. All characteristics are measured with a $0.33\mu\text{F}$ capacitor across the input and a $0.1\mu\text{F}$ capacitor across the output.

** This specification applies only for dc power dissipation permitted by absolute maximum ratings.

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