

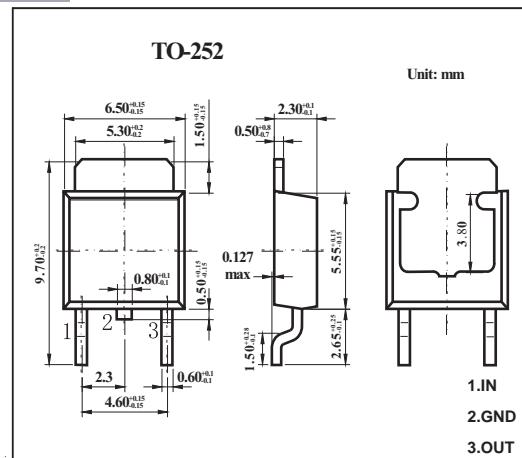
## Three-terminal positive voltage regulator

### FEATURES

- Maximum output current IOM: 1.5 A
- Output voltage VO: 5V
- Continuous total dissipation PD: 1.25 W

### MECHANICAL DATA

- Case: TO-252 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



### MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Unit
Input Voltage	V <sub>i</sub>	35	V
Thermal Resistance from Junction to Air	R <sub>θJA</sub>	80	°C/W
Operating Junction Temperature Range	T <sub>OPR</sub>	-25~+125	°C
Storage Temperature Range	T <sub>STG</sub>	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE  
(Vi=10V, Io=500mA, Ci=0.33μF, Co=0.1μF, unless otherwise specified )

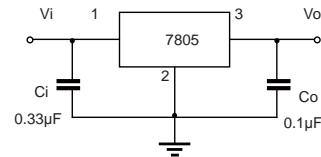
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	Vo		25°C	4.8	5.0	5.2	V
		7V≤Vi≤20V, Io=5mA-1A	-25-125°C	4.75	5.00	5.25	V
Load Regulation	△Vo	Io=5mA-1.5A	25°C		9	100	mV
		Io=250mA-750mA	25°C		4	50	mV
Line Regulation	△Vo	7V≤Vi≤25V	25°C		4	100	mV
		8V≤Vi≤12V	25°C		1.6	50	mV
Quiescent Current	Iq		25°C		5	8	mA
Quiescent Current Change	△Iq	7V≤Vi≤25V	-25-125°C		0.3	1.3	mA
		5mA≤Io≤1A	-25-125°C		0.03	0.5	mA
Output Noise Voltage	V <sub>N</sub>	10Hz≤f≤100KHz	25°C		42		μV/Vo
Output voltage drift	△Vo/△T	Io=5mA	-25-125°C		-1.1		mV/°C
Ripple Rejection	RR	8V≤Vi≤18V, f=120Hz	-25-125°C	62	73		dB
Dropout Voltage	Vd	Io=1A	25°C		2		V
Output resistance	R <sub>O</sub>	f=1KHz	25°C		10		mΩ
Short Circuit Current	Isc		25°C		230		mA
Peak Current	Ipk		25°C		2.2		A

\* Pulse test.



# RATINGS AND CHARACTERISTIC CURVES

## Typical Characteristics



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

