

ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS	TEMPERATURE ⁽²⁾ CASE TEMP	TYPICAL
Output Voltage ⁽¹⁾	$I_{OUT} = 300 \text{ mA}$ $V_{IN} = V_{OUT} + 3\text{VDC}$	+25°C to +200°C	$V_{OUT} \pm 1.0\%$
Line Regulation ⁽¹⁾	$V_{IN} = V_{OUT} + 3\text{VDC}$ to $V_{IN} = 38 \text{ VDC}$ $I_{OUT} = 50 \text{ mA}$	+25°C to +200°C	$V_{OUT} \pm 0.3\%$
Load Regulation	$V_{IN} = V_{OUT} + 5\text{VDC}$ $I_{OUT} = 50 \text{ to } 300\text{mA}$	+25°C to +200°C	$V_{OUT} \pm 0.5\%$
Ripple Rejection at 120 Hz	$V_{IN} = V_{OUT} + 5\text{VDC}$	+25°C	-60db
Standby Current	$V_{IN} = V_{OUT} + 5\text{VDC}$ $I_{OUT} = 0$	+25°C	30mA
Short Circuit Current	$V_{IN} = V_{OUT} + 5\text{VDC}$	+25°C	400mA
Short Circuit Current	$V_{IN} = V_{OUT} + 5\text{VDC}$	+200°C	200mA
Foldback Current (knee)	$V_{IN} = V_{OUT} + 5\text{VDC}$	+25°C	2A
Foldback Current (knee)	$V_{IN} = V_{OUT} + 5\text{VDC}$	+200°C	1.5A
Noise Output	$V_{IN} = V_{OUT} + 5\text{VDC}$ $I_{OUT} = 300 \text{ mA}$	+25°C	2mVRMS
Differential Voltage * ($\Delta V = V_{IN} - V_{OUT}$)	$I_{OUT} = 300 \text{ mA}$	+25°C to +200°C	3VDC MIN

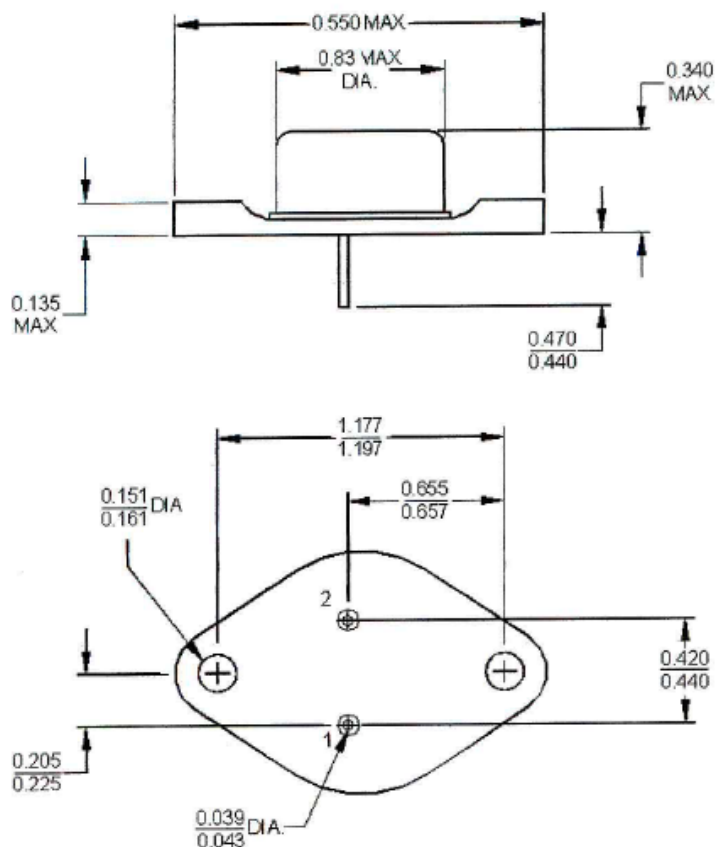
Notes:

1) $V_{IN} = 10\text{V Min}$

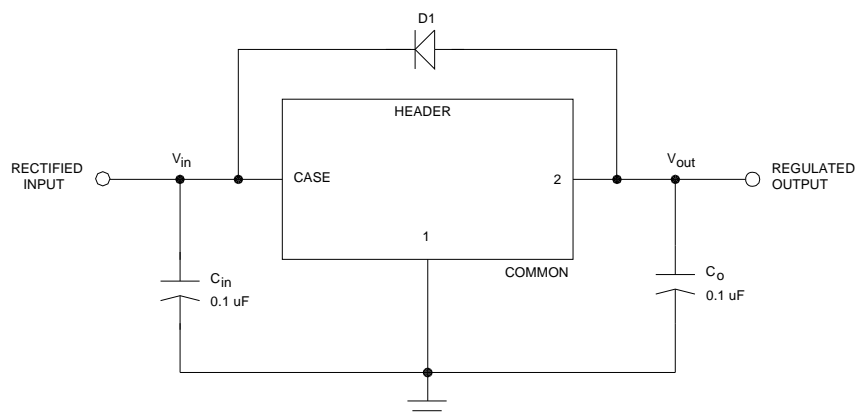
2) Regulator operation guaranteed by design @ -25°C for test condition listed. To designate factory screening add a "-1" to the Micropac part number; i.e. 42094-015-1.

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Mechanical Configuration



Typical Connection Diagram



Electrical Connection

Case	V_{IN}
Pin 1	Ground
Pin 2	V_{OUT}

C_{IN} & C_o :

- Recommended as good analog design practice to ensure regulator stability. These are in addition to supply and load capacitance.
- Required if regulator is located more than 2" or 3" away from input supply or output load capacitor(s). Capacitors must be installed as close to the regulator Terminals as possible to ensure stability.
- X5R & X7R type ceramic capacitors are recommended because of minimal variation in value and ESR over temperature.

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