



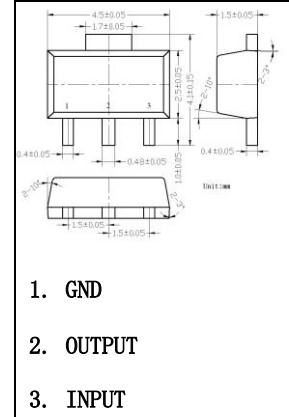
SOT-89 LOW DROPOUT LINEAR REGULATOR

AMS1117-1.2

FEATURES

- Low Dropout Voltage: 1.15V at 1A Output Current
- Trimmed Current Limit
- On-Chip Thermal Shutdown
- Operation junction Temperature: 0°C to 125°C

Marking: AMS11171.2LJ13



Operating Conditions: $V_{IN} \leq 10V, T_J = 25^\circ C$ unless otherwise specified.

Parameter	Conditions	Min	Typ	Max	Unit
Output Voltage	$I_{out}=10mA, V_{IN}=3.2V$ $10mA \leq I_{out} \leq 1A, 3.0V \leq V_{IN} \leq 10V$	1.176	1.2	1.224	V
Line Regulation	$V_{INMIN} \leq V_{IN} \leq 12V$ $V_{out} = \text{Fixed/Adj}, I_{out} = 10mA$			7	mV
Load Regulation	$V_{out} = \text{Fixed/Adj}, 10mA \leq I_{out} \leq 1A$			15	mV
Dropout Voltage	$\Delta V_{REF} = 1\%, I_{OUT} = 1A$		1.15	1.5	V
Current Limit	$V_{IN} - V_{out} = 2V$	1.25	1.35		A
Adjust Pin Current			60	120	uA
Adjust Pin Current Change	$1.4V \leq V_{IN} - V_{out} \leq 10V, 10mA \leq I_{out} \leq 1A$		0.2	5	uA
Quiescent Current	$V_{IN} = V_{OUT} + 1.25V$		5	10	mA
Ripple Rejection	$f = 120Hz, C_{out} = 22\mu f \text{ Tantalum},$ $V_{IN} - V_{out} = 3V, I_{OUT} = 1A$	60	75		dB
Temperature Stability			0.5		%
Long-Term Stability	$T_a = 125^\circ C, 1000hrs$		0.3		%
RMS Output Noise (% of V_{OUT})	$T_a = 25^\circ C, 10HZ \leq f \leq 10KHZ$		0.003		%
Thermal Shutdown	Junction Temperature		150		$^\circ C$
Thermal Shutdown Hysteresis			25		$^\circ C$

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