AME

AME8907

350mA Ultra Low I_Q High PSRR Linear Regulator

■ General Description

The AME8907 is an ultra-small linear regulator(LDO) featuring ultra-low quiescent current and low dropout that is able to source 350mA with excellent transient performance.

The AME8907' s ultra-low I_Q (1.3μA) is designed specifically for the applications requiring extreme low quiescent current. This LDO could increase battery life through maintaining low I_Q consumption even in dropout mode.

The feature of 1.3μA low quiescent current and 0.1μA shutdown current are ideal for the battery application with long service life. The other features include current limit function, over temperature protection and output discharge function.

Package available in SOT-25, DFN-4A(1x1x0.4mm) and DFN-6D (2x2x0.75mm).

■ Features

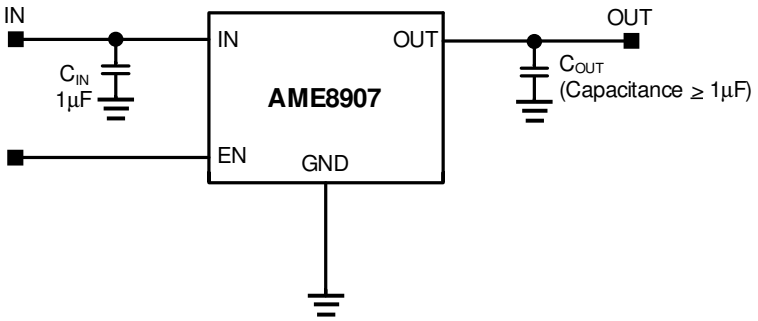
- Input Voltage Range: 1.2V to 5.5V
- Output Voltage Range:
  Fixed Version_from 0.8V to 4.5V
  ADJ Version_from 0.8V to 5.0V
- Output Voltage Tolerance: ±1%
- Dropout Voltage: 150mV(typ) @350mA,V_{OUT}=2.5V
- Low Quiescent Current: 1.3μA
- High PSRR: 80dB @1kHz
- Output Noise: 25μVrms
- Over Temperature Protection
- Over Current Protection
- Output Active Discharge Function

■ Applications

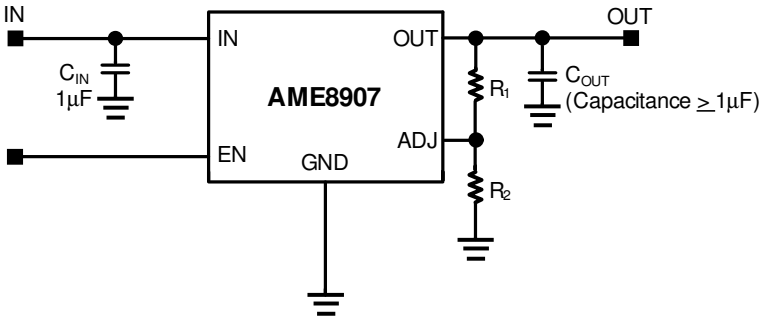
- Portable Device, Tablet and Smartphone
- Camera, VCR and Car Dashboard Camera
- Cam Application Required Low Noise and Illuminace
- Communications and Infrastructure
- AR and VR Application
- FA Equipment, Smart Meter

■ Typical Applications

A. Fixed Mode



B. ADJ Mode



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Life Support Policy:
These products of AME, Inc. are not authorized for use as critical components in life-support devices or systems, without the express written approval of the president of AME, Inc.

AME, Inc. reserves the right to make changes in the circuitry and specifications of its devices and advises its customers to obtain the latest version of relevant information.

Document: G002A-DS8907-D.02

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