

LDO ICs

Micro-Power consumption 30V, 400mA, Low Low-Dropout Voltage Linear Regulator

**AS9134A**

● General Description

The AS9134A is a CMOS low dropout, low noise, low power consumption, low quiescent current positive linear regulator with wide input voltage range. The AS9134A can deliver a guaranteed 400mA load current with a low dropout voltage. Quiescent current of only 2.0uA makes these devices ideal for powering the battery-powered, always-on systems that require very little idle-state power dissipation to a longer service life.

The device is suitable for portable application such as cellular handsets or PDA. Besides, its current limit protection and on-chip thermal shutdown function provide protection against any combination of over-load or ambient temperature which could cause junction temperature exceeding maximum rating. The AS9134A includes a reference bypass pin in order to reduce output noise and a logic control shut-down input.

The space-saving SOT89-3L packages are attractive for hand-held applications. The device is specified over an ambient temperature range of -40°C to 125°C.

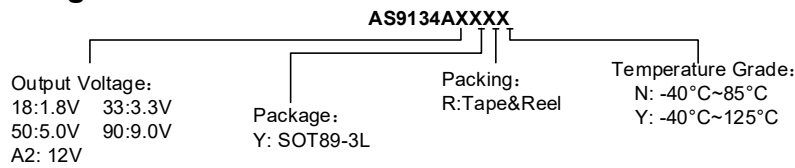
● Features

- Output Current Up to 400mA
- Wide Voltage V_{IN} Range: 2.0V to 30V
- Very Low Quiescent Current at 2.0uA
- Low Dropout voltage of 150mV at 100mA/ $V_{IN}=5V$
- Output Voltage Accuracy at $\pm 2.0\%$
- Support Fixed Output Voltage: 1.8V, 3.3V, 5V, 9V, 12V.
- PSRR 70dB at 100Hz
- Needs Only 1.0uF Capacitor for Stability
- Current Limit Protection
- Without EMI and Switch Noise
- Stable with Ceramic Capacitor or Tantalum Capacitor
- RoHS and Green Compliant
- SOT89-3L Packages
- -40°C to +125 °C Temperature Range

● Applications

- Portable, Battery Powered Equipment
- Low Power Microcontrollers
- Laptop, Palmtops & PDAs
- Audio/Video Equipment
- Car Navigation Systems
- Industrial Control
- Weighting Scales
- Meters/Home Automation

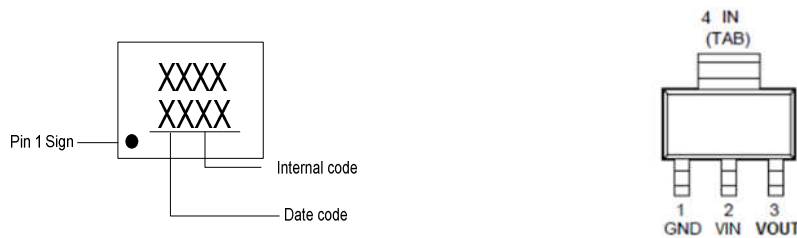
● **Ordering Information**



Part Number	Driver Capability	Package Type	Package Qty	Temperature	Eco Plan
AS9134A-XXYRN	400mA	SOT89-3L	13-in reel 3000pcs/reel	-40~85°C	RoHS
AS9134A-XXYRY	400mA	SOT89-3L	13-in reel 3000pcs/reel	-40~125°C	RoHS

● **Marking Information & Pin Assignment**

SOT89-3L:



Pin Name	Pin No.	I/O	Pin Function
	SOT89-3L		
GND	1	P	Ground
VIN	2	P	Input Power Supply
VOUT	3	O	Output Pin
VIN	4	P	Input Power Supply

● **Typical Application Circuit**

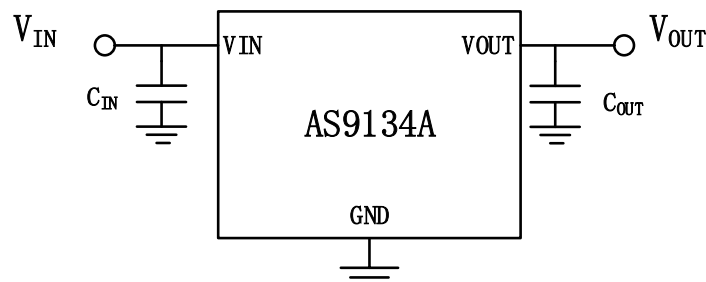
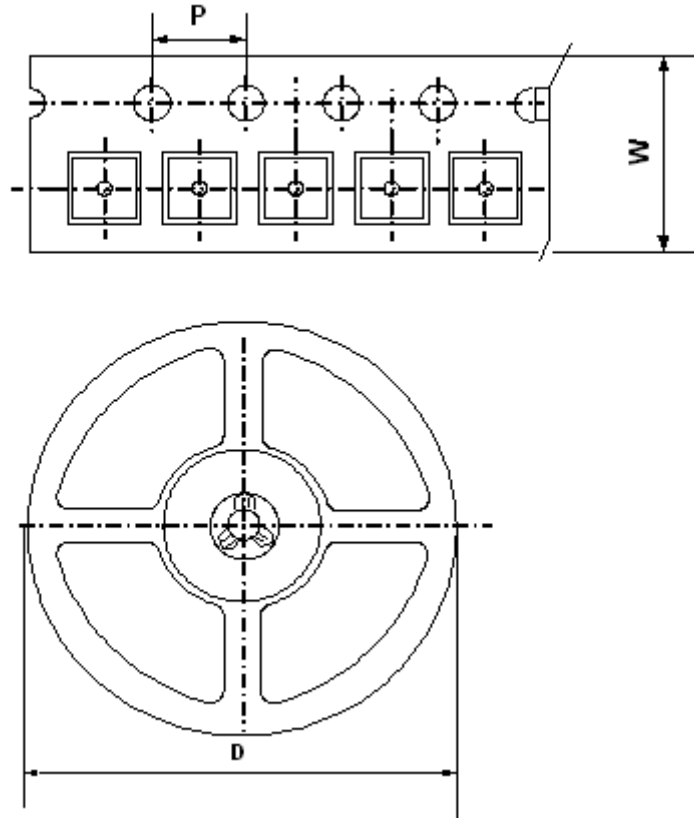


Figure 1, Typical Application Circuit of AS9134A

■ Packing Information



Package Type	Carrier Width(W)	Pitch(P)	Reel Size(D)	Packing Minimum
SOT89-3L	12.0±0.1 mm	4.0±0.1 mm	330±1 mm	3000pcs

Note: Carrier Tape Dimension, Reel Size and Packing Minimum