

**2A CMOS LDO Regulator****AP2132****Description**

The AP2132 are positive Voltage regulator ICs fabricated by CMOS process. It consists of a voltage reference, an error amplifier, a power transistor, a resistor network for setting output voltage, a current limit circuit for current protection, and a chip enable circuit.

The AP2132 have features of large current, low dropout voltage, high output voltage accuracy, low input voltage, The AP2132 provides a Power Good (PG) signal to indicate if the voltage level of V_{OUT} reaches 92% of its rating value. And it operates with a V_{IN} as low as 1.4V and V_{PP} voltage 5V with output voltage programmable as low as 0.6V.

The AP2132 is available in 1.2V, 1.5V, 1.8V, 2.5V fixed output voltage versions and ADJ output voltage version. The fixed versions integrate the adjust resistors. It is also available in an adjustable version, which can set the output voltage with external resistor.

Features

- Adjustable Output Low to 0.6V
- Low Dropout Voltage: 300mV at $I_{OUT}=2A$, $V_{OUT}=1.2V$
- Over Current and Over Temperature Protection
- Enable Pin
- PSOP-8 package with Thermal Pad
- Maximum Output Current: 2A
- High Output Voltage Accuracy: 2%
- V_{OUT} Power Good signal
- Excellent Line/Load Regulation

Applications

- Notebook

Parametric Table

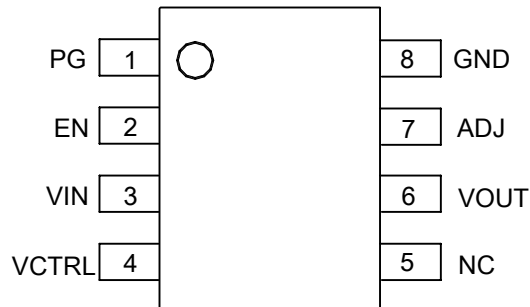
I_{OUT} (Max) (mA)	2000 (Min.)
Supply Current (μA)	300
V_{DROP} at $I_{OUT}=2A$ (Typ) (V)	0.3
Detect Voltage (Typ) (V)	1.2, 1.5, 1.8, 2.5 and ADJ
V_{IN} (Max) (V)	5.5
PSRR (dB)	60
Load Regulation (Typ) (mV)	10
Line Regulation (Typ) (mV)	2
Operating Temperature (Min) ($^{\circ}C$)	-40
Operating Temperature (Max) ($^{\circ}C$)	85

Benefits

- Easy to Use
- Very Competitive Price

Additional Available Materials

- Samples
- Preliminary Datasheet
- Reliability Report
- ESD Report

2A CMOS LDO Regulator
AP2132
Pin Configuration
PSOP-8

Ordering Information Example

Package	Version Description	Part Number	Marking ID	Packing Type
PSOP-8	Each fixed output version integrates ADJ version	AP2132MP-1.2G1	2132MP-1.2G1	Tube
		AP2132MP-1.2TRG1	2132MP-1.2G1	Tape & Reel
		AP2132MP-1.5G1	2132MP-1.5G1	Tube
		AP2132MP-1.5TRG1	2132MP-1.5G1	Tape & Reel
		AP2132MP-1.8G1	2132MP-1.8G1	Tube
		AP2132MP-1.8TRG1	2132MP-1.8G1	Tape & Reel
		AP2132MP-2.5G1	2132MP-2.5G1	Tube
		AP2132MP-2.5TRG1	2132MP-2.5G1	Tape & Reel

Detailed information please refer to the relevant datasheet.

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