

**600mA CMOS LDO REGULATOR WITH ENABLE****AP2111****Description**

The AP2111 is CMOS process low dropout linear regulator with enable function, the regulator delivers a guaranteed 600mA (min.) continuous load current

The AP2111 provides 1.2V and 3.3V regulated output, and provides excellent output accuracy 1.5%, also provides a excellent load regulation, line regulation and excellent load transient performance due to very fast loop response. The AP2111 has built-in auto discharge function.

Features

- Output voltage accuracy: $\pm 1.5\%$
- Output Current: 600mA (Min.)
- Foldback Short Current Protection: 50mA
- Enable Function to Turn ON/OFF V_{OUT}
- Low Dropout Voltage (3.3V): 250mV (Typ.) @ $I_{OUT}=600mA$
- Excellent Load Regulation: $0.2\%/A$ (Typ.)
- Excellent Line Regulation: $0.02\%/V$ (Typ.)
- Low Quiescent Current: 55 μA (Typ.)
- Low Standby Current: 0.01 μA (Typ.)
- Low Output Noise: 50 μV_{RMS}
- PSRR: 100Hz -65dB, 1k -65dB
- OTSD Protection
- Stable with 1.0 μF Flexible Cap: Ceramic, Tantalum and Aluminum Electrolytic
- Operation Temperature Range: -40°C to 85°C
- ESD: MM 400V, HBM 4000V

Applications

- Laptop computer
- Potable DVD
- LCD Monitor

Parametric Table

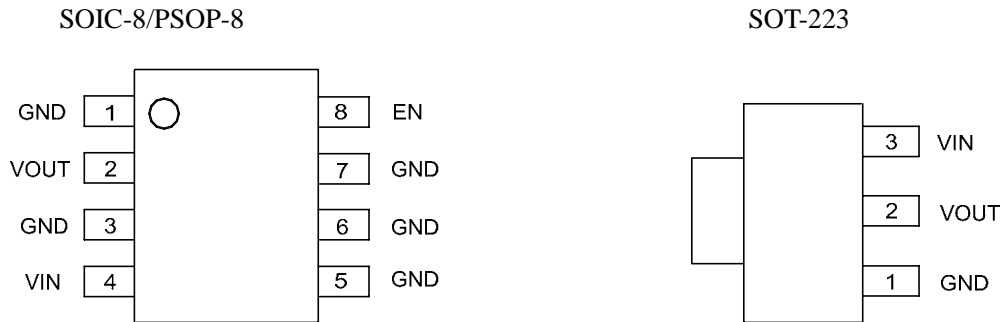
Input Voltage Range (V)		2.5 tp 6
Output Current (Min) (mA)		600
V_{DROP} at $I_{OUT}=600mA$ (Typ) (mV)		250(3.3V)
Quiescent Current(μA)		55
PSRR (dB) ($V_{OUT}=3.3V$)	f=100Hz	65
	f=1kHz	65
Accuracy (%)		± 1.5
Load Regulation (Typ) (%/A)		0.2
Line Regulation (Typ) (%/V)		0.02
On/Off Pin		Yes
Error Flag		No
Operating Temperature (Min) (°C)		-40
Operating Temperature (Max) (°C)		85

Benefits

- Equivalent Characteristics to the Products from Worldwide First-class Vendors
- Stable with 1.0 μF Flexible Cap
- Very Competitive Price

Additional Available Materials

- Samples
- Preliminary Datasheet
- Reliability Report
- ESD Report

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AP2111
Pin Configuration

Ordering Information Example

Package	Temperature Range	Part Number	Marking ID	Packing Type
SOIC-8	-40 to 85°C	AP2111M-1.2G1	2111M-1.2G1	Tube
		AP2111M-1.2TRG1	2111M-1.2G1	Tape & Reel
		AP2111M-3.3G1	2111M-3.3G1	Tube
		AP2111M-3.3TRG1	2111M-3.3G1	Tape & Reel
PSOP-8	-40 to 85°C	AP2111MP-1.2G1	2111MP-1.2G1	Tube
		AP2111MP-3.3G1	2111MP-3.3G1	Tube
SOT-223	-40 to 85°C	AP2111H-1.2TRG1	GH11B	Tape & Reel
		AP2111H-3.3TRG1	GH11C	Tape & Reel

Detailed information please refer to the relevant datasheet.

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