

**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

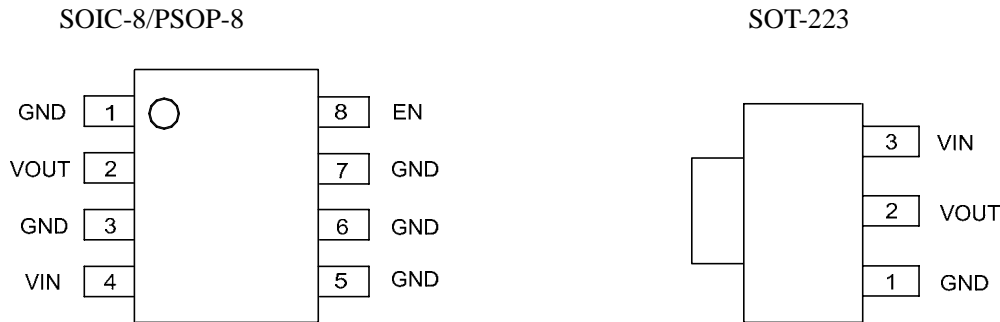
| | | |
|--|-----------|----|
| Input Voltage Range (V) | 2.5 tp 6 | |
| Output Current (Min) (mA) | 600 | |
| V_{DROP} at $I_{OUT}=600mA$ (Typ) (mV) | 250(3.3V) | |
| Quiescent Current(μA) | 55 | |
| PSRR (dB) ($V_{OUT}=3.3V$) | f=100Hz | 65 |
| | f=1kHz | 65 |
| Accuracy (%) | ± 1.5 | |
| Load Regulation (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

600mA CMOS LDO REGULATOR WITH ENABLE
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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