



300mA Low-Noise LDO Regulators

Features

- Low, 90 μ A No-Load Supply Current
- Guaranteed 300mA Output Current
- Dropout Voltage is 200mV @ 150mA Load
- PSRR=53dB @ 1kHz
- Over-Temperature Protection and Short-Circuit Protection
- Max. Supply Current in Shutdown Mode < 1 μ A
- Low Output Noise at 28 μ V_{RMS}
- Stable with low cost ceramic capacitors
- Output voltage: 1.20V~5.00V

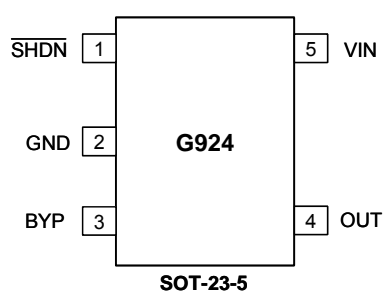
Applications

- Notebook Computers
- Cellular Phones
- PDAs
- Digital still Camera and Video Recorders
- Hand-Held Devices
- Audio Codec

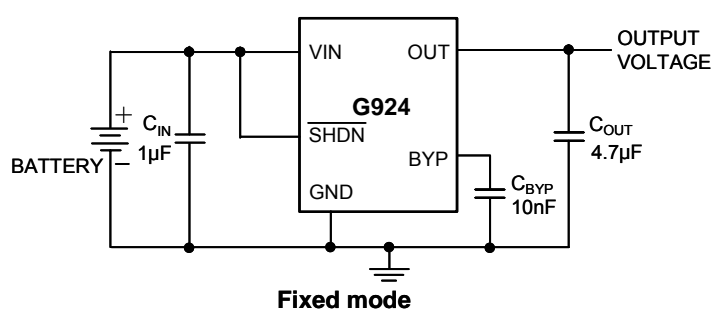
General Description

The G924 is a low supply current, low dropout linear regulator that comes in a space saving SOT-23-5 package. The supply current at no-load is 90 μ A. In the shutdown mode, the maximum supply current is less than 1 μ A. Operating voltage range of the G924 is from 2.5V to 5.5V. The over-current protection limit is set at 550mA typical and 400mA minimum. An over-temperature protection circuit is built-in in the G924 to prevent thermal overload. These power saving features make the G924 ideal for use in the battery-powered applications such as notebook computers, cellular phones, and PDA's.

Pin Configuration



Typical Application Circuit



**Ordering Information**

| ORDER NUMBER (Pb free/Green) | MARKING | VOLTAGE | TEMP. RANGE | PACKAGE |
|---------------------------------|---------|---------|----------------|----------|
| G924-330T1Uf | 94AXx | 3.30V | -40°C~ +85°C | SOT-23-5 |

For other output voltage, please contact us at sales@gmt.com.tw

Note: T1: SOT-23-5

U: Tape & Reel

Selector Guide

| ORDER NUMBER | ORDER NUMBER (Pb free) | OUTPUT VOLTAGE (V) | MARKING |
|--------------|---------------------------|--------------------|---------|
| G924-120T1U | G924-120T1Uf | 1.20 | 94AAx |
| G924-130T1U | G924-130T1Uf | 1.30 | 94ABx |
| G924-140T1U | G924-140T1Uf | 1.40 | 94ACx |
| G924-150T1U | G924-150T1Uf | 1.50 | 94ADx |
| G924-160T1U | G924-160T1Uf | 1.60 | 94AEx |
| G924-170T1U | G924-170T1Uf | 1.70 | 94AFx |
| G924-180T1U | G924-180T1Uf | 1.80 | 94AGx |
| G924-190T1U | G924-190T1Uf | 1.90 | 94AHx |
| G924-200T1U | G924-200T1Uf | 2.00 | 94Aix |
| G924-210T1U | G924-210T1Uf | 2.10 | 94AJx |
| G924-220T1U | G924-220T1Uf | 2.20 | 94AKx |
| G924-230T1U | G924-230T1Uf | 2.30 | 94ALx |
| G924-240T1U | G924-240T1Uf | 2.40 | 94AMx |
| G924-250T1U | G924-250T1Uf | 2.50 | 94ANx |
| G924-260T1U | G924-260T1Uf | 2.60 | 94AOx |
| G924-270T1U | G924-270T1Uf | 2.70 | 94APx |
| G924-280T1U | G924-280T1Uf | 2.80 | 94AQx |
| G924-285T1U | G924-285T1Uf | 2.85 | 94ARx |
| G924-290T1U | G924-290T1Uf | 2.90 | 94ASx |
| G924-300T1U | G924-300T1Uf | 3.00 | 94ATx |
| G924-310T1U | G924-310T1Uf | 3.10 | 94AUx |
| G924-315T1U | G924-315T1Uf | 3.15 | 94AVx |
| G924-320T1U | G924-320T1Uf | 3.20 | 94AWx |
| G924-330T1U | G924-330T1Uf | 3.30 | 94AXx |
| G924-340T1U | G924-340T1Uf | 3.40 | 94AYx |
| G924-350T1U | G924-350T1Uf | 3.50 | 94AZx |
| G924-360T1U | G924-360T1Uf | 3.60 | 94BAx |
| G924-370T1U | G924-370T1Uf | 3.70 | 94BBx |
| G924-380T1U | G924-380T1Uf | 3.80 | 94BCx |
| G924-390T1U | G924-390T1Uf | 3.90 | 94BDx |
| G924-400T1U | G924-400T1Uf | 4.00 | 94BEx |
| G924-410T1U | G924-410T1Uf | 4.10 | 94BFx |
| G924-420T1U | G924-420T1Uf | 4.20 | 94BGx |
| G924-430T1U | G924-430T1Uf | 4.30 | 94BHx |
| G924-440T1U | G924-440T1Uf | 4.40 | 94Bix |
| G924-450T1U | G924-450T1Uf | 4.50 | 94BJx |
| G924-460T1U | G924-460T1Uf | 4.60 | 94BKx |
| G924-470T1U | G924-470T1Uf | 4.70 | 94BLx |
| G924-475T1U | G924-475T1Uf | 4.75 | 94BMx |
| G924-480T1U | G924-480T1Uf | 4.80 | 94BNx |
| G924-490T1U | G924-490T1Uf | 4.90 | 94BOx |
| G924-500T1U | G924-500T1Uf | 5.00 | 94BPx |