

## FEATURES

- Application for Extreme Low 1.0 & 1.2V Output Voltage
- Guaranteed 600mA Output Current
- Very Low Quiescent Current at about 30uA
- $\pm 2\%$  Output Voltage Accuracy for 1V~3.3V
- Needs Only 1uF Capacitor for Stability
- Thermal Shutdown Protection
- Current Limit Protection
- Low-ESR Ceramic Capacitor for Output Stability
- Tiny SOT-23-5L & SC-70-5L, SOT-223, SOT-89(R) & TO-252 Package Type
- RoHS Compliant & Halogen Free
- High PSRR

## APPLICATIONS

- DVD/CD-ROMs, CD/RWs
- Wireless Devices
- LCD Modules
- Battery Power Systems
- Card Readers
- XDSL Routers

## DESCRIPTION

The JTMA8862 series are low dropout, positive linear regulators with very low quiescent current. The JTMA8862 can supply 600mA output current with a low dropout voltage & very low output voltage.

The JTMA8862 regulator is able to operate with output capacitors as small as 1  $\mu$ F for stability. Other than the current limit protection JTMA8862 also offers on chip thermal shutdown feature providing protection against overload or any condition when the ambient temperature exceeds the junction temperature.

The JTMA8862 series are offering several fixed output voltage types including 1.0V ~ 1.5V.

The JTMA8862 series are available in low-profile, space-saving SOT-23-5L, SC-70-5L, SOT-223, SOT-89(R) & TO-252 packages.

## TYPICAL APPLICATION

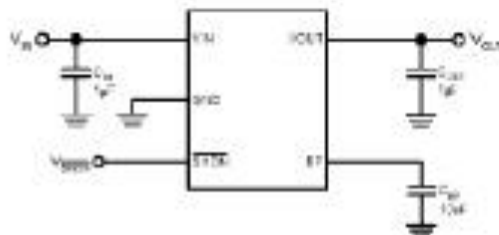


Figure 1. Typical Application Circuit of JTMA8862

Note : To prevent oscillation, it is recommended to use minimum 1uF X7R or X5R dielectric capacitors if ceramics are used as input/output capacitors.

## PACKAGE ORDERING INFORMATION

| JTMA8862X-XX   |           |
|----------------|-----------|
| Package Type   | Vout      |
| Y5 : SOT-23-5L | 10 : 1.0V |
| U5 : SC-70-5L  | 12 : 1.2V |
| K : SOT-223    | 15 : 1.5V |
| G/GR : SOT-89  | 18 : 1.8V |
| H : TO-252     | 25 : 2.5V |
|                | 28 : 2.8V |
|                | 30 : 3.0V |
|                | 33 : 3.3V |

Data and specifications subject to change without notice

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