

**2.5A SINK/SOURCE BUS TERMINATION REGULATOR****FEATURES**

- Ideal for DDR-I, DDR-II and DDR-III V<sub>TT</sub> JTMA Applications
- Sink and Source up to 2.5Amp
- Integrated Power MOSFETs
- Generates Termination Voltage for SSTL\_2, SSTL\_18, HSTL, SC8I2 and SC8I3 Interfaces.
- High Accuracy Output Voltage at Full-Load
- Output Adjustment by Two External Resistors
- Built-in Soft-start Function
- Shutdown for Suspend to RAM (STR) Functionality with High-impedance Output
- Current Limiting Protection
- On-Chip Thermal Protection
- Available In ESDP-8 Packages
- Vin and Vout Under Voltage Protection
- RoHS Compliant and Halogen Free Product

**JTMA APPLICATION**

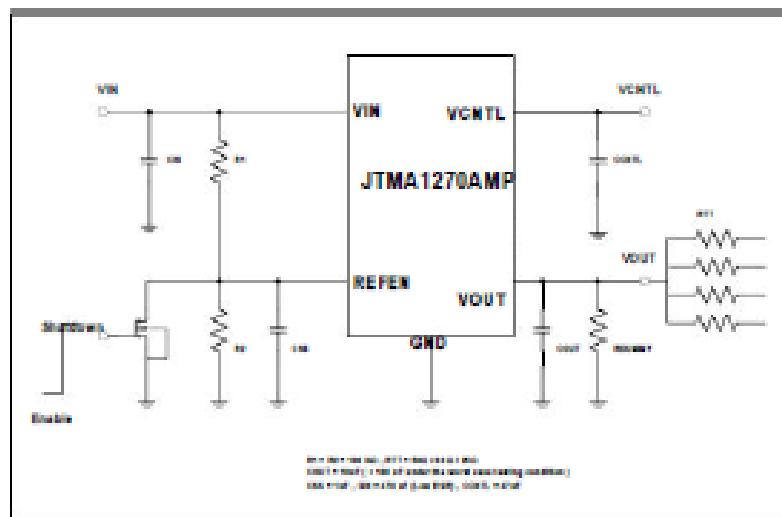
- Desktop PCs, Notebooks, and Workstations
- GrJTMA1270 Card Memory Termination
- Set Top Boxes, Digital TVs, Printers
- Embedded Systems
- Active Termination Buses
- DDR-I, DDR-II and DDR-III Memory Systems

**DESCRIPTION**

The JTMA1270AMP is a simple, cost-effective and high-speed linear regulator designed to generate termination voltage in double data rate (DDR) memory system to comply with the JEDEC SSTL\_2 and SSTL\_18 or other specific interfaces such as HSTL, SC8I-2 and SC8I-3 etc. devices requirements. The regulator is capable of actively sinking or sourcing up to 2.5A while regulating an output voltage to within 40mV. The output termination voltage can be tightly regulated to track 1.2V<sub>VDD</sub> by two external voltage divider resistors or the desired output voltage can be programmed by externally forcing the REFEN pin voltage.

The JTMA1270AMP also incorporates a high-speed differential amplifier to provide ultra-fast response in line/load transient. Other features include extremely low initial offset voltage, excellent load regulation, current limiting in bi-directions and on-chip thermal shut-down protection. Built-in softstart function avoids a misoperation by inrush current.

The JTMA1270AMP are available in the ESDP-8 surface mount packages.

**TYPICAL JTMA APPLICATION**

Data and specifications subject to change without notice

1  
20140418V3.2

有需要详细的文件请发邮件: [oumao18@jtm-ic.com](mailto:oumao18@jtm-ic.com) 联系或电话: 0755-262580208