

FEATURES

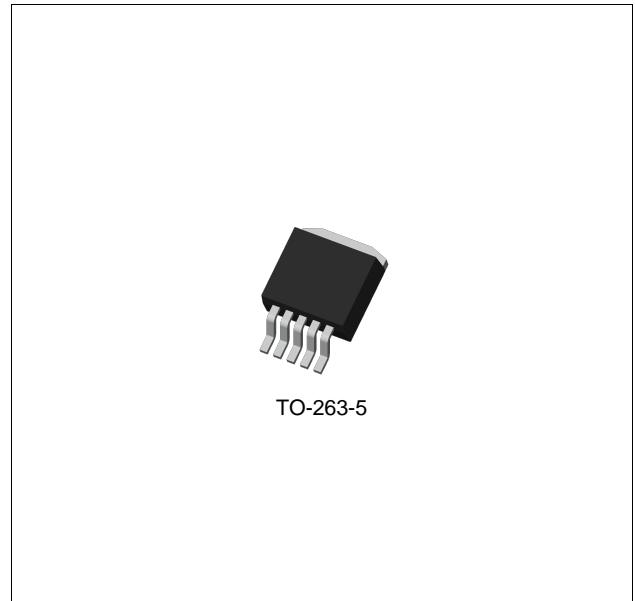
- Guaranteed Output Current of 5.0A
- Very Low Dropout Voltage
- 1% Initial Accuracy
- Good Line and Load Regulation
- Fast Transient Response
- Adjustable Output Voltage up to 15V
- TTL/CMOS Compatible Enable Logic
- Over-Temperature/Over-Current Protection
- -40°C to 125°C Junction Temperature Range
- Available in TO-263-5L Package
- Moisture Sensitivity Level 3

APPLICATIONS

- Battery Powered Equipment
- Motherboards and Graphic Cards
- Microprocessor Power Supplies
- Peripheral Cards
- High Efficiency Linear Regulators
- Battery Chargers

DESCRIPTION

The TPS75501 is 5.0A low-dropout linear voltage regulators that provide a low voltage, high-current output with a minimum of external components. The TPS75501 offers extremely low dropout (typically 400mV at 5.0A) and low ground current (typically 70mA at 5.0A). The TPS75501 is ideal for PC add-in cards that need to convert from standard 5V or 3.3V down to new, lower core voltages. A guaranteed maximum dropout voltage of 500mV over all operating conditions allows the TPS75501 to provide 2.5V from a supply as low as 3V. The TPS75501 also has fast transient response for heavy switching applications. The device requires only 47 μ F of output capacitance to maintain stability and achieve fast transient response. The TPS75501 is fully protected with over current limiting, thermal shutdown, reversed-battery protection, reversed-leakage protection, and reversed-lead insertion. The TPS75501 offers a TTL-logic compatible enable pin. The TPS75501 comes in the TO-263 package and is an ideal upgrade to older, NPN-based linear voltage regulators.



ORDERING INFORMATION

Device	Package
TPS75501R	TO-263-5L

Please contact us for more information about this product.