

# AT801

## 300mA Ultra Low Dropout Regulator



Immense Advance Tech.

### FEATURES

- Typically 250mV dropout @300mA
- Input voltage range: 1.8V to 5.5V
- P-CH design to reduce the operation current
- Full industrial temperature range
- Over current and over temperature protection
- Output voltage accuracy  $\pm 2.0\%$
- Supply current typically 0.4mA

### APPLICATION

- Notebook computers
- Battery powered systems
- Motherboards/Peripheral cards
- Telecom/Networking cards
- Industrial Applications
- Portable Application
- Handheld Application
- Medical equipment

### DESCRIPTION

The AT801 is a high performance positive voltage regulator designed for use in applications requiring very low input voltage and very low dropout voltage at 300mA amps. It operates with a  $V_{IN}$  as low as 1.8V. The AT801 features ultra low dropout, ideal for applications where  $V_{OUT}$  is very close to  $V_{IN}$ . The AT801 provides excellent regulation over variations in line, load and temperature.

The AT801 is available in the SOT-23 and SOT-89 package.

The optimum thermal condition has to consider the layout placement and application to achieve its satisfied high output current requirement.

### TYPICAL APPLICATION CIRCUITS

