

AT5820

3A Low Dropout Regulator with Enable



Immense Advance Tech.

FEATURES

- Reference Voltage 0.8V
- Input Voltage as Low as 1.3V and VPP Voltage 5V
- 340mV Dropout @3A
- Over Current, Short Circuit and Over Temperature Protection
- Enable Pin
- Low Reverse Leakage (Output to Input)
- High Output Voltage Accuracy $\pm 2\%$
- Power Good Signal
- Adjustable Output Voltage by Externally Using Resistors
- V_{OUT} Pull Low Resistance When Disable

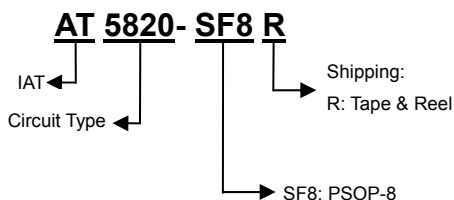
APPLICATION

- Motherboards Application
- Peripheral Cards
- Network Cards
- Set Top Boxes
- Notebook PC Applications

DESCRIPTION

The AT5820 is a high performance positive voltage regulator designed for use in applications requiring very low input voltage and very low dropout voltage at up to 3A (peaks). It operates with a V_{IN} as low as 1.3V and VPP voltage 5V with output programmable as low as 0.8V. The AT5820 features ultra low dropout, ideal for applications where V_{OUT} is very close to V_{IN} . Additionally, the AT5820 provides excellent regulation over variations in line, load and temperature. The AT5820 provides a power good signal to indicate if the voltage level of V_{OUT} reaches 92% of its rating value.

ORDER INFORMATION



PIN CONFIGURATIONS (TOP VIEW)

PSOP-8

