

General Description

The 7805 is a monolithic integrated circuit designed as fixed-voltage regulator for a wide variety of applications including local, on-card regulation. This regulator is complete with internal current limiting, thermal shutdown protection, and safe-area compensation which makes it virtually immune from output overload.

If adequate heat sinking is provided, this regulator can deliver output currents in excess of 1.0A. Although designed primarily as a fixed voltage regulators, these devices can also be used with external components to obtain adjustable voltages and current.

The 7805 is available in two plastic packages: TO-220 and TO-252.

Features

- Output Current up to 1.0A
- Fixed Output Voltage of 5V
- Output Voltage Tolerances of $\pm 5\%$ over the Full Temperature Range
- Internal Short Circuit Current-Limiting
- Internal Thermal Overload Protection

Applications

- Consumer Electronics
- Microprocessor Power Supply
- Mother Board I/O Power Supply

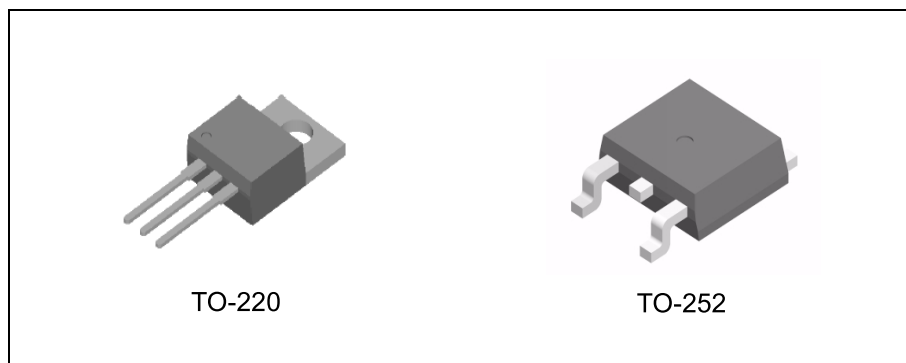


Figure 1. Package Types of AS7805

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