

General Description

The AS1084 is a series of low dropout positive voltage regulators with a maximum dropout of 1.5V at 5A of load current.

The AS1084 is available in 1.5V, 1.8V, 2.5V, 2.85V, 3.3V and 5.0V versions. The fixed versions integrate the adjust resistors. It is also available in an adjustable version which can set the output voltage with two external resistors.

The series features on-chip thermal limiting which provides protection against any combination of overload and ambient temperatures that would create excessive junction temperatures. It also includes a trimmed bandgap reference and a current limiting circuit.

The AS1084 series is available in standard packages of TO-263 (2 and 3 lead), TO-220 and TO-252.

Features

- Available in 1.5V, 1.8V, 2.5V, 2.85V, 3.3V and 5.0V versions
- Low dropout voltage: typical 1.3V at 5A
- Current limiting and thermal protection
- Low dropout voltage
- Standard TO-263, TO-220 and TO-252 packages
- Output current: 5A
- Current limit: 6.5A
- Operating junction temperature range: 0 ~ 125°C
- Line regulation: 0.015% (typ.)
- Load regulation: 0.2% (typ.)

Applications

- High efficiency linear regulators
- Battery chargers
- Post regulation for switching supply
- Microprocessor supply
- Desktop PCs, RISC and embedded processors' supply

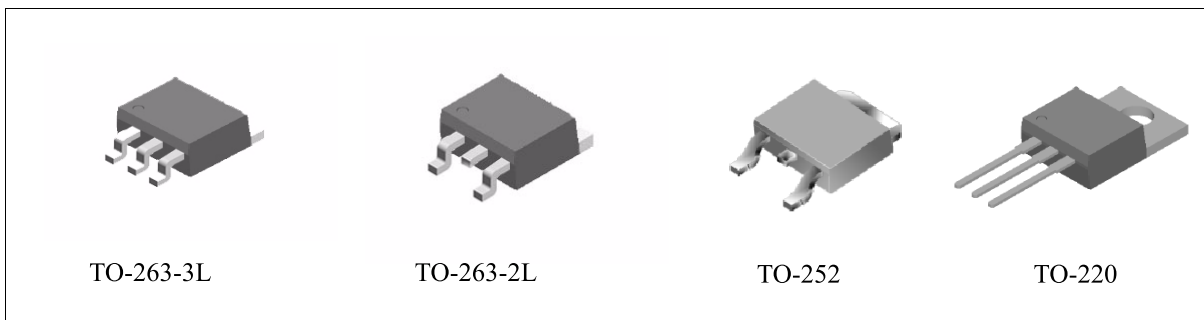


Figure 1. Package Types of AS1084