



LM7800 Series 3-Terminal Positive Voltage Regulators

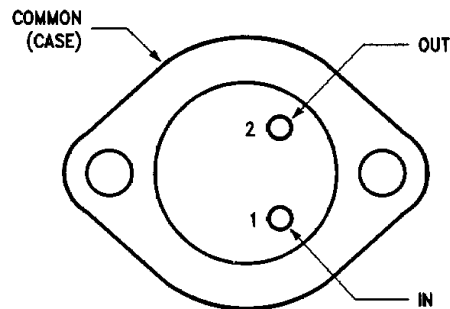
General Description

The LM7800 series of monolithic 3-terminal positive voltage regulators employ internal current-limiting, thermal shut-down and safe-area compensation, making them essentially indestructible. If adequate heat sinking is provided, they can deliver over 1.0A output current. They are intended as fixed voltage regulators in a wide range of applications including local (on-card) regulation for elimination of noise and distribution problems associated with single-point regulation. In addition to use as fixed voltage regulators, these devices can be used with external components to obtain adjustable output voltages and currents.

Features

- Output current in excess of 1.0A
- No external components
- Internal thermal overload protection
- Internal short circuit current-limiting
- Output transistor safe-area compensation
- Available in JEDEC TO-220 and TO-3 packages
- Output voltages of 6V, 8V, 18V and 24V (See Note)
- Available in extended temperature range

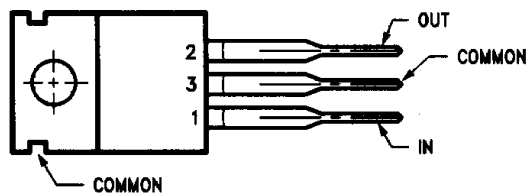
Connection Diagrams



Top View

TL/H/10052-1

Order Number LM7806K, LM7808K, LM7818K,
LM7824K, LM7806CK, LM7808CK,
LM7818CK or LM7824CK
See NS Package Number K02A



Lead 3 connected to tab.

Top View

TL/H/10052-2

Order Number LM7806CT, LM7808CT
LM7818CT or LM7824CT
See NS Package Number T03B

Note: See General Purpose Linear Databook for specifications on similar devices with 5V, 12V, or 15V outputs. These parts can be found under LM140/LM340, LM140A/LM340A (for tighter output tolerance) and LM78XX datasheets.