

5.5V 4A Low-Ron Power Distribution Load Switch

Description

The MT7692 is a compact, low R_{ON} load switch with controlled slew rate. The device operates over an input voltage range of 2.5V to 5.5V and can support maximum continuous current of 4A.

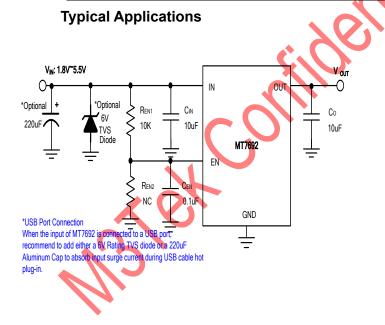
The controlled output slew rate greatly reduces inrush current at start-up when charging large bulk load capacitances, thereby minimizes input supply voltage droop. MT7692 comes with built-in full protections against over current, over voltage and over temperature. MT7692 provides an accurate enable threshold which allows users to program input under-voltage lockout (UVLO) threshold through external resistor divider network. MT7692 has built-in 8 Ω resistor for quick output discharge at disable. MT7692 is available in small 4-pin 1.2mm X1.6mm DFN (MT7692NFER) and 5-pin SOT235 (MT7692NSBR) packages.

Features

- Wide Input Range from 1.8V to 5.5V
- Low Ron:
 - 26mΩ for MT7692NFER
 - 48mΩ for MT7692NSBR
- Up to 4A continuous current
- 250µs internal Soft-start for 5V output
- Built-in Over-Voltage, Over-Current and Over Temperature Fault Protections
- Accurate 1.2V Enable Threshold
- Quick Output Discharge in Shutdown

Application

- Solid-state Drives
- Wearable IOT Devices
- Portable Medical Equipment
- Portable Media Players
- Smartphones and Tablets



MT7692N R_{ON} vs. Input Voltage

