

28V Over-Voltage and Over-Current Protection IC

DESCRIPTION

The MT7255 integrated load switch provides a robust input over-voltage protection to downstream circuit systems. The device comes with built-in 4A current limit, internal soft-start. The switch's low $R_{DS(ON)}$ minimizes power loss of the system. In the event of input over voltage, MT7255 immediately turns off the switch to prevent downstream system from stress of excessive high voltage. Internal soft-start ensures a smooth ramp up of output voltage and limits the input in-rush current. MT7255 is available in DFN2X2_8L or SOT23-3 package.

FEATURES

- Wide Input Voltage Range from 2.7V to 28V,
- 50m Ω Low $R_{DS(ON)}$ Protection Switch
- Built-in 4A Current Limit
- Discharge Output at OVP
- Internal Soft-Start
- Hiccup Mode Protection for Over Load or Short Circuit
- Thermal Shutdown
- SOT23-3 or DFN2X2_8L Package
- Pb-Free ROHS compliant

APPLICATIONS

- Bluetooth Headsets
- HDD and SSD Drives
- Adapter Powered Devices
- Tablet PC
- PCI, PCIe Cards

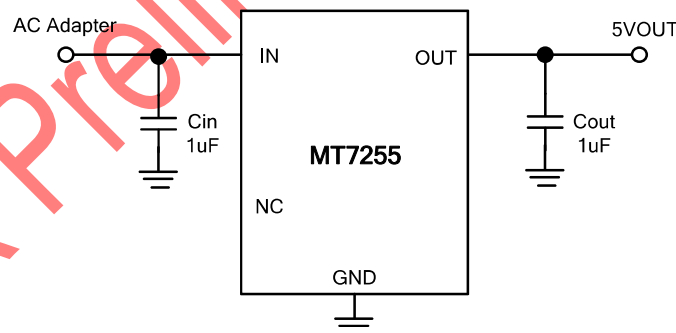
TYPICAL APPLICATION

Figure1. Typical Application