## Description

The MT7232 is an advanced 28 V 6A rated bidirectional load switch which provides overload, short circuit, input voltage surge, excessive inrush current and over-temperature protections to power the system. The built-in $24 \mathrm{~m} \Omega$ ultra low $\mathrm{R}_{\mathrm{DS}(\mathrm{ON})}$ power switch helps reducing power loss during normal operation. The device features two input/output ports, VBUS1 and VBUS2, which are rated at 28 V Absolute Maximum. Each port has independent enable, external current limit setting and discharge control pins. The integrated two N channel power switch M 1 and M 2 in-series configuration blocks any leakage between VBUS1 and VBUS2 two ports when the device is disabled. The MT7232 is available in low profile 16 leads QFN $2.5 \mathrm{~mm} \times 3.2 \mathrm{~mm}$ package.

## Features

- Wide Supply Voltage Range from 3V to 24 V
- 28V Tolerance on Port VBUS1 and VBUS2
- Integrate a $24 \mathrm{~m} \Omega$ Ultra Low On Protection Switch
- External Adjustable Soft-Start Time
- External Adjustable Input Over-Voltage Threshold
- Short-circuit Protection
- Fault Indicator
- Thermal Shutdown Protection and Auto Recovery
- Each Port VBUS1/VBUS2 Independent Control
- External Adjustable Current Limit
- Enable Interface Pin
- Port Discharge Interface Pin
- IEC/UL Safety approvals:

Conditions: 20Vin and 3.2A continues load current
Protective Current Limit Rating: 5A
IEC/UL 62368-1, 3'rd Edition, File no. E521699

- QFN $2.5 \mathrm{~mm} \times 3.2 \mathrm{~mm}$ _16L Packages
- Pb-Free ROHS compliant


## Application

- Notebook, Desktop, Servers and Tablets
- Dongle and Docking Stations

Power Accessories

- Thunderbolt/USB Type-C PD power switch

Typical Application (For IEC/UL Safety Approval)


