

28V 5A Bidirectional Load Switch with Dual Port Independent Current Limit Setting

**Description**

The MT7282 is an advanced overload, short circuit, input voltage surge, excessive inrush current and over-temperature protections to power the system. The built-in 35mΩ ultra low R<sub>DS(ON)</sub> power switch helps reducing power loss during normal operation. The device features two input/output ports, VBUS1 and VBUS2, which are rated at 28V Absolute Maximum. Each port has independent enable and discharge control pins. The integrated two N-channel power switch M1 and M2 in-series configuration blocks any leakage between VBUS1 and VBUS2 two ports when the device is disabled. The MT7282 is available in low profile 20 leads QFN 4mm x 4mm package.

**Features**

- Wide Supply Voltage Range from 3V to 24V
- 28V Tolerance on Port VBUS1 and VBUS2
- Integrate a 35mΩ Ultra Low On Protection Switch
- External Adjustable Soft-Start Time
- External Adjustable Input Over-voltage Threshold
- External Adjustable Input Current Limit Threshold
- Short-circuit Protection
- Fault Indicator
- Thermal Shutdown Protection and Auto Recovery
- Each Port VBUS1/VBUS2 Independent Control
  - ◆ Enable Interface Pin
  - ◆ Port Discharge Interface Pin
- QFN4mm×4mm\_20L 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**

