

Low-input-voltage 5A Current-limited Load Switch

DESCRIPTION

The MT7622 is a compact, low RON load switch with a controlled slew rate. With VBIAS supply from 2.5V to 5.5V, the device operates over an input voltage range of 0.4V to 3.3V and can support maximum continuous current of 5A.

The controlled output slew rate greatly reduces inrush current at start-up when charging large bulk load capacitances, thereby minimizes input supply voltage droop. MT7622 comes with built-in full protection against over current and over temperature. MT7622 has a built-in 12Ω resistor for quick output discharge at disable. MT7622 is available in small DFN 1.5 x 1.5_6L packages.

FEATURES

- Input Range from 0.4V to 3.3V
- Bias Range: 2.5V to 5.5V
- Low RON 13mΩ Internal Pass Switch
- 5A Continuous output current
- Low quiescent current 40uA
- Built-in Over-Current and Over Temperature Fault Protections
- Internal 12Ω Quick Output Discharge in Shutdown
- Reverse blocking in shutdown
- Small DFN 1.5 x 1.5_6L package

APPLICATIONS

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

TYPICAL APPLICATIONS

