

Datasheet Brief KTS1668

For full datasheet, click HERE.

4 Amp Over-Voltage Protection IC with Sense Output

Features

- Wide Input voltage range: 2.3V to 30V
- Up to 4A Continuous current capability
- Integrated 38mΩ (typ) N-Channel MOSFET
- Wide Over-Voltage threshold range
 - ► Fixed internal: 13.75V
- Fast OVP response time: 0.1µs (typ.)
- Internal 15ms Startup Debounce
- Integrated Surge Protection up to 100V
- Low Quiescent Current: 70µA (typ.)
- Thermal Shutdown and Short Circuit Protection
- Compliance to IEC61000-4-2 (Level 4)

► Contact: ±8kV► Air Gap: ±15kV

ESD Protection

► Human Body Model: ±2kV

Pb-free Package: 12-Bump WLCSP

-40°C to +85°C Temperature Range

Applications

- Smartphones
- Tablet
- Mobile Internet Devices, Peripherals

Brief Description

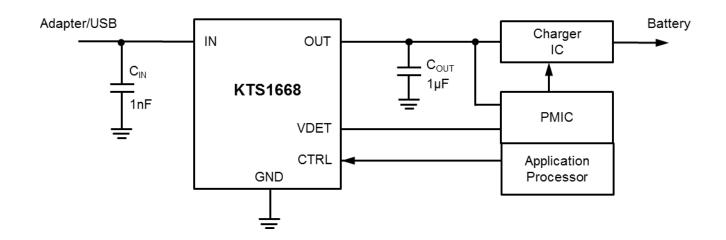
The KTS1668 over-voltage protection (OVP) device features an ultra-low $38m\Omega$ (typical) on-resistance high current integrated MOSFET which actively protects low-voltage systems from voltage supply faults up to +28V_{DC}. An internal clamp protects the device from surges up to 100V.

An input voltage exceeding the over-voltage threshold will cause the internal MOSFET to turn off, preventing excessive voltage from damaging downstream devices. When the OVLO input set below the external OVLO select voltage, the KTS1668 automatically chooses the internal fixed OVLO threshold, preset to 13.75V (typical).

The KTS1668 is protected against over-current faults by an internal over-temperature protection shutdown feature.

The KTS1668 is available in a RoHS and Green compliant 12-Bump 1.288mm x 1.988mm x 0.64mm WLCSP.

Typical Application



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Ordering Information

Part Number	Marking ¹	OVLO Threshold	Operating Temperature	Package
KTS1668EAY-TR	KPYYZ	13.75V	-40°C to +85°C	WLCSP-12

^{1. &}quot;KPYYZ" is the device code, date code and assembly code.

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