

Adjustable Over-Voltage Protection Switch

Features

- Wide Input voltage range: 2.7V to 28V
- Up to 3.0A current capability
- Integrated 60mΩ (typ) N-Channel MOSFET
- Fast OVP turn-off response time: 100ns
- Flexible trip-point options
 - ▶ Fixed 6.15V(KTS1671)
 - ▶ Fixed 9.98V(KTS1672)
 - ▶ Fixed 13.5V(KTS1673)
 - ▶ Adj. 4V to 20V
- Auto-enabled switch with 18ms debounce time
- Under voltage (UVLO), Short-circuit and thermal shutdown protection
- Compliance to IEC61000-4-2 (level 4)
 - ▶ Contact: ±8kV
 - ▶ Air Gap: ±15kV
- ESD Protection
 - ▶ Human Body Model: ±2.5kV
- Pb-free WLCSP-6 package
- -40°C to +85°C Temperature Range

Brief Description

The KTS1671 over-voltage protection device features an ultra-low 60mΩ (typical) on-resistance high current integrated MOSFET which actively protects low-voltage systems from voltage supply faults up to +28V.

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 is connected to GND, the KTS1671 automatically chooses the internal fixed OVLO threshold, preset to 6.15V (typical). The over-voltage protection threshold can be adjusted with an optional external resistor divider to a voltage between 4V and 20V.

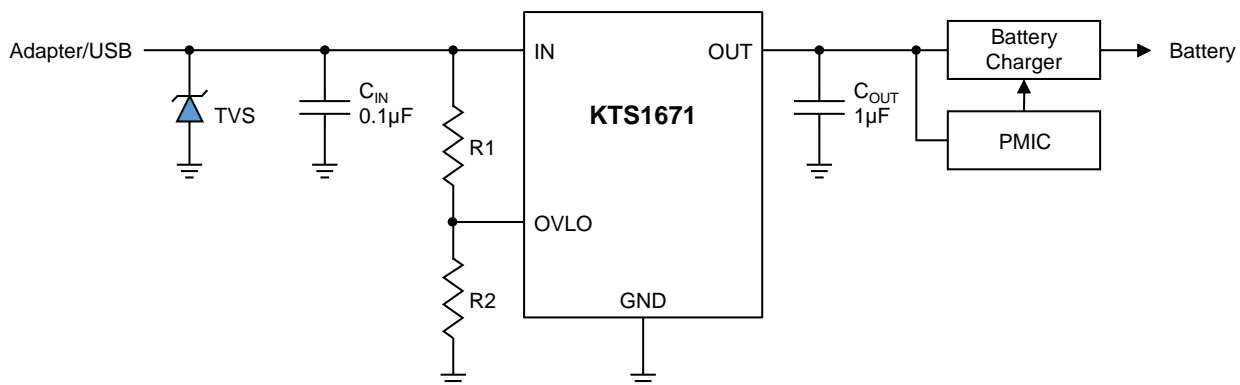
In case the device temperature exceeds the maximum junction temperature, the device switches off.

The KTS1671 is available in a RoHS and Green compliant 6-Bump 1.20 x 1.00mm WLCSP.

Applications

- Smartphones
- Mobile Internet Devices
- Tablet Computers
- Peripherals

Typical Application



Ordering Information

Part Number	Marking	Operating Temperature	Package
KTS1671EUN-TR	JOXXYYZZZZ ¹	-40°C to +85°C	WLCSP-6

1. XX = Date Code, YY = Assembly Code, ZZZZ = Serial Number.

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