

Datasheet Brief **KTS1677A**

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For full datasheet, click HERE.

Low RON Load Switch with Overvoltage and Reverse Blocking Protection

Brief Description

current blocking,

downstream device.

Package (WLCSP).

temperature protection.

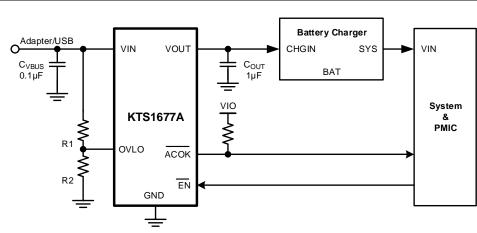
Features

- Wide Input voltage range: 3V to 23V
- 30V Absolute Ratings at V_{IN} and V_{OUT}
- Maximum 5A continuous current
- Integrated FET with 30mΩ (Tvp) R_{ON}
- Wide Overvoltage threshold range
- ► Fixed internal: 23V
- Adjustable: 4V to 23V
- Open-Drain power good indicator
- Integrated protection
 - Thermal Shutdown
 - Under-Voltage Lockout (UVLO)
 - Overvoltage Lockout (OVLO)
 - VOUT to VIN Reverse Current Blocking
 - Over-current limiting
- Surge and ESD Protection
- IEC61000-4-5: ±90V for VIN
- ▶ IEC61000-4-2: ±8KV Contact, ±15KV Air for VIN
- HBM: ±2KV for all Pins
- Pb-free Package:
- 15 Bump WLCSP 2.57mm x 1.57mm
- -40°C to +85°C Temperature Range

Applications

- Computers and Tablets
- Mobile Internet Devices
- Type-C Power Source Switch
- Storage, DSLR and Portable Devices

Typical Application



The KTS1677A is a slew-rate controlled, $30m\Omega$ (Typ), low

resistance MOSFET switch intended to be inserted

between a power source and a load to isolate and protect

against abnormal voltage and current conditions. Featuring

slew-rate turn on control, to prevent excessive large inrush

current, the KTS1677A also features several additional

protection functions, such as input ±90V surge, input

overvoltage, input under-voltage protection, reverse

Operating from a wide input voltage range of 3V to 30V can

cover USB PD applications to offer essential protection and

enhance system reliability. The KTS1677A in the OFF

state can block voltages on the VIN/VOUT pin of up to 30V

and prevent reverse currents. Two KTS1677A can be used

in to support dual power inputs connecting to the same

The device is packaged in advanced, fully "green"

compliant, 2.57mm x 1.57mm, Wafer-Level Chip-Scale

over-current limiting



Ordering Information

Part Number	Marking	Operating Temperature	Package
KTS1677AEVH-TR	NBXXYYZZZZ	-40°C to +85°C	WLCSP-15

1. "WWXXYYZZZZ" is the mark code, date code and assembly code.

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Kinetic Technologies: KTS1677AEVH-TR