Datasheet Brief
KTS1601/KTS1601-1

For full datasheet, click **HERE**.

2.0A Slew Rate Controlled Load Switch with Reverse Blocking

Features

- Operating Range: 1.5V~5.5V
- Low $R_{DS(ON)}$ MOSFET: Typ. 24mΩ @ 3.3V
- Continuous DC current up to 2.0A
- Built-in slew rate controlled turn-on: 2.7ms
- Low quiescent current < 1μA
- ESD Protection
  - Human Body Model : 8kV
  - Charged Device Model : >2.0kV
  - Compliance to IEC61000-4-2 level 4
    - Contact Discharge : 8kV
    - Air Discharge : 15kV
- Pb-Free Packages:
  - WLCSP-4, 1.0 x 1.0mm
  - RoHS and Green Compliant
- -40°C to +85°C Temperature Range

Applications

- Mobile Phones & Tablets
- SSD (Solid State Drive)
- Portable Instruments
- DSC, DVR, GPS

Brief Description

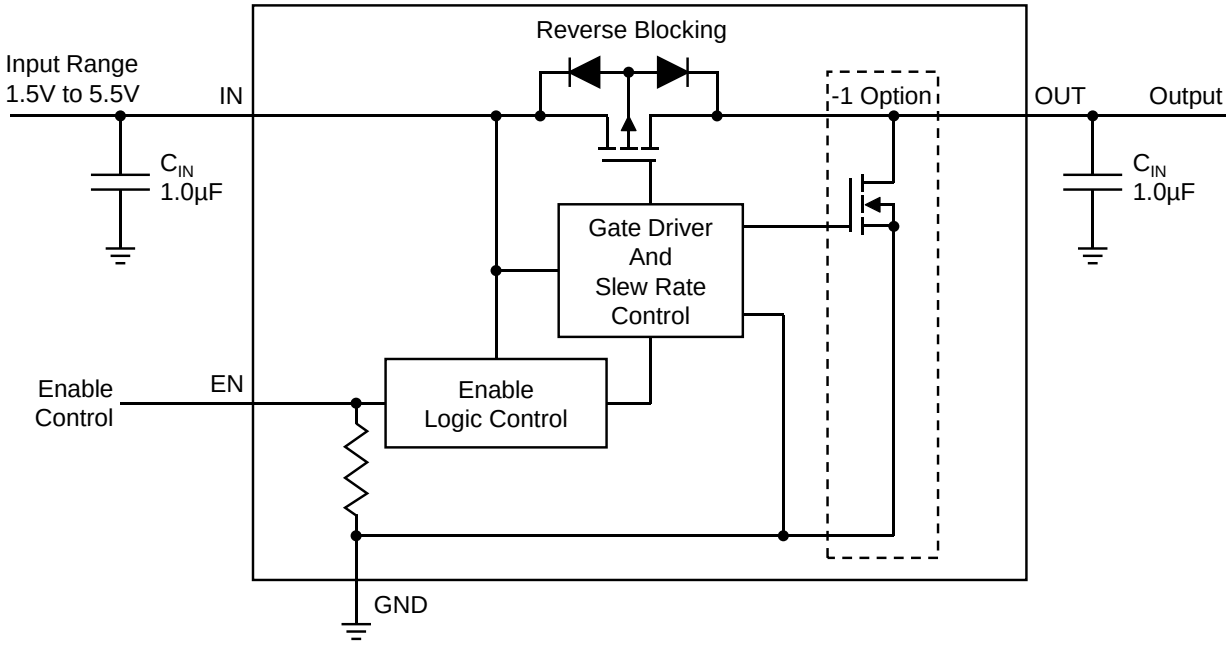
The KTS1601 is slew rate controlled load switch designed for 1.5 V to 5.5 V operation. It features a controlled soft-on slew rate of typical 2.7ms that limits the inrush current for designs with heavy capacitive loads and thereby minimizing any resulting voltage droop at the power rails.

The very low $R_{DS(ON)}$ allows currents up to 2.0A, whilst minimizing the power dissipation and voltage drop from supply to load. The KTS1601 features an active high enable pin, which is capable of interfacing directly with low input control signals, without any additional level shifting circuitry. The KTS1601 also includes an active pull-down option (-1) to ensure the device remains off, should the enable be allowed to float.

The KTS1601 provides reverse blocking in the OFF state to ensure that power supplies are not discharged.

The KTS1601 is available in an optimized, lead-free, fully green compliant, small 4-pin WLCSP 1.0 x 1.0mm package with 0.5mm pitch

Typical Application



Ordering Information

Part Number	Marking[1]	Operating Temperature	OUT Pull-Down	Package
KTS1601EUM-TR	KKXXYYZZZZ	-40°C to +85°C	NO	WLCSP-4, 1.0 x1.0 x 0.625 mm
KTS1601EUM-1-TR	JMXXYYZZZZ		YES	

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