

Kinetic technologies KTS1601 2A Slew Rate Controlled Load Switch with Reverse Blocking User Guide

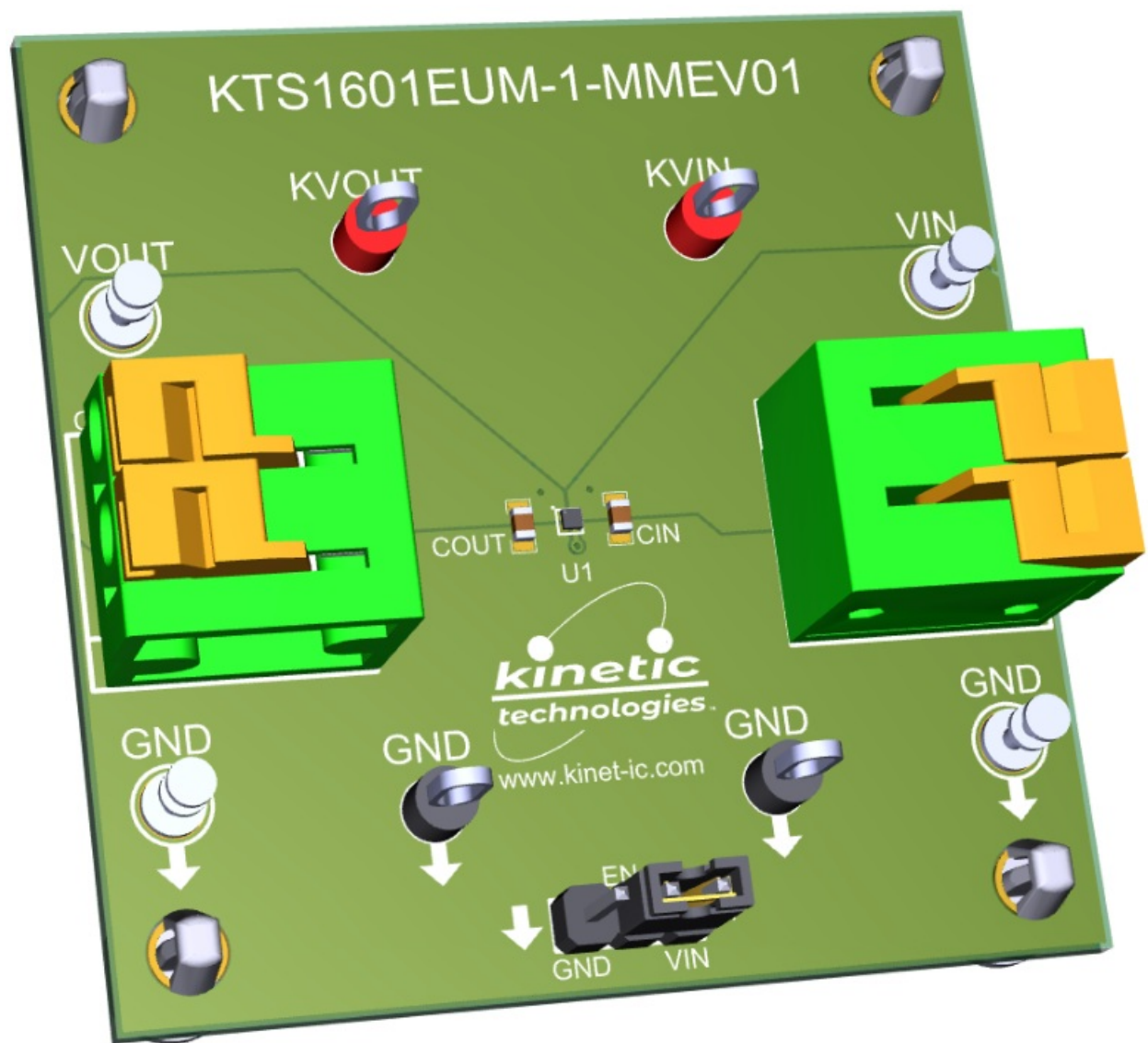
[Home](#) » [Kinetic Technologies](#) » Kinetic technologies KTS1601 2A Slew Rate Controlled Load Switch with Reverse Blocking User Guide 

Contents

- [1 Kinetic technologies KTS1601 2A Slew Rate Controlled Load Switch with Reverse Blocking](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 EVAL Kit Physical Contents](#)
- [5 QR Links for Documents](#)
- [6 User-Supplied Equipment](#)
- [7 Quick Start Procedures](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)



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Product Information

The KTS1601 is a 2A Slew Rate Controlled Load Switch with Reverse Blocking. The EVAL Kit includes a fully assembled PCB, an anti-static bag, a quick start guide, and an EVAL Kit box. The kit landing page and IC datasheet can be accessed through the QR links provided.

Product Usage Instructions

1. Set the jumper to default: EN = VIN (High).
2. Connect one pair of Banana-to-clip power cables to the test points at VIN and GND (right edge of EVAL Kit).
3. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as needed.
4. Connect the EVAL Kit to the bench supply.
5. To turn on the switch, apply a logic high level to the EN input.
6. To turn off the switch, apply a logic low level to the EN input.

Please refer to the IC datasheet and user manual for more detailed usage instructions and safety precautions.

EVAL Kit Physical Contents

Item #	Description	Quantity
1	KTS1601 EVAL Kit fully assembled PCB	1
3	Anti-static bag	1
4	KTS1601 EVAL Kit Quick Start Guide — printed 1-page (A4 or US Letter)	1
5	EVAL Kit box	1

QR Links for Documents

IC Datasheet	EVAL Kit Landing Page
 https://www.kinet-ic.com/KTS1601/	 https://www.kinet-ic.com/kts1601eaum-mmeev01/

User-Supplied Equipment

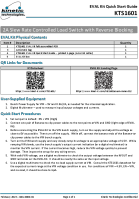
1. Bench Power Supply for VIN – 5V and 0.5A/2A, as needed for the intended application.
2. Digital Multimeter – used to measure input/output voltages and currents.

Quick Start Procedures

1. Set Jumper to default: EN = VIN (High)
2. Connect one pair of Banana-to-clip power cables to the test points at VIN and GND (right edge of EVAL Kit).
3. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as close to 0V as possible. Then turn off the supply. While off, connect the banana ends of the Banana-to-clip power cables to the VIN bench supply.
4. Turn on the VIN bench supply and very slowly ramp its voltage to an appropriate voltage of 4.5V. While ramping VIN slowly, use the bench supply's output current indication (or a digital multimeter) to monitor the VIN current. If the current becomes high, reduce the VIN voltage quickly to prevent damage. Then inspect the setup for any wiring errors.
5. With valid VIN voltage, use a digital multimeter to check the output voltage between the KVOUT and GND terminals on the EVAL Kit. It should be nearly the same as the input voltage.
6. Use a digital multimeter to check the no-load supply current at VIN. Consult the KTS1601 datasheet for the

expected current range at the VIN voltage condition in use. For conditions of VIN = 4.5V, EN = VIN, and no-load, it should be close to 6uA.

Documents / Resources



[Kinetic technologies KTS1601 2A Slew Rate Controlled Load Switch with Reverse Blocking](#) [pdf] User Guide

KTS1601 2A Slew Rate Controlled Load Switch with Reverse Blocking, KTS1601, 2A Slew Rate Controlled Load Switch with Reverse Blocking, 2A Slew Rate Controlled Load Switch, Rate Controlled Load Switch, Controlled Load Switch, Load Switch, Switch

References

- [KTS1601, KTS1601-1 | 2A Slew-Rate Controlled Load Switch with Reverse Blocking](#)