For full datasheet, click **HERE**.

Smart Push-Button Reset with Two Discharge Paths

Features

- Operating Range: 2.2V~5.5V
- Supply Current in standby: < 1µA (V_{DD} = 4V)
- Quiescent Current in Ship mode: < 1µA (V_{DD} = 4V)
- Output Delay time (RST0 & 1 Input pins): 10s Typ.
- Reset Pulse Time (SRO, nSRO Output): 400ms Typ.
- Ship Mode Entry Delay Time (OFF Input): 15s
- Ship Mode Entry Command (OFF Input): 5 cycles
- Ship Mode Exit Delay Time (RST0 Input): Typ. 2s
- Output Discharge Time: 400ms Typ.
- Output Discharge Delay Time: 6ms Max
- ESD Protection
  - Human Body Model: 2kV
  - Charged Device Model: 1.5kV
- Over-Temperature Protection
- -40°C to +85°C Temperature Range

Applications

- Mobile Phones & Tablets
- Wearable Devices
- Portable Instruments
- DSC, DVR, GPS
- Electronics with non-removable batteries

Brief Description

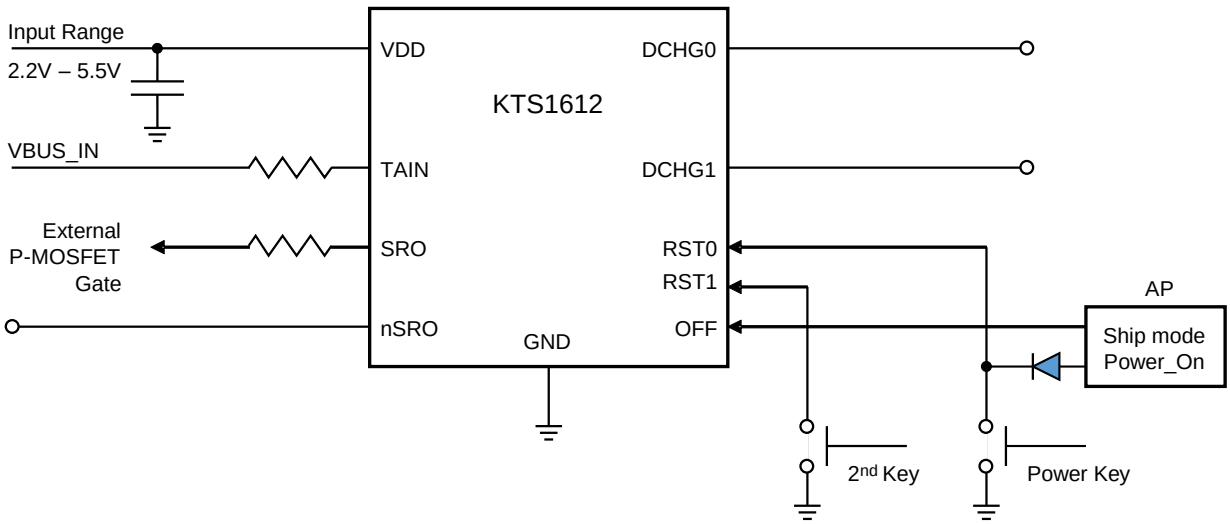
The KTS1612 is a two input, two output Smart Push-Button Reset IC. A reset pulse is generated for a fixed discharge time (400ms typ) after both manual reset inputs have been held low for the reset request time of 10s.

The KTS1612 operates over the 2.2 V to 5.5V supply voltage range, consuming less than 10µA of supply current at 4V.

The reset and power sequence is controlled by RST0/RST1 and OFF signals and have the ability to drive an external P-channel MOSFET. The reset IC supports two discharge outputs DCHG0 and DCHG1.

The KTS1612 is available in lead-free, fully green compliant, small 10-pin UQFN 2.0mm x 1.5mm package.

Typical Application



Ordering Information

Part Number	Marking[1]	Operating Temperature	Package
KTS1612EQU-TR	KQYYZ	-40°C to +85°C	UQFN2.0x1.5-10

1. “KQYYZ” is the device code, date code and assembly code respectively.

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