

Ultra-Small, Low ON Resistance Load Switch with Auto-Discharge Path

General Description

The iD3017/A is a small, low RDSON switch with controlled turn on. The device contains a PMOS that can operate over an input voltage range of 1.4V to 5.5V. The switch is controlled by an external logic pin, which is an active high enable.

The iD3017/A contains a 65mohm on-chip resistor for quick discharge when the switch is turned off.

The Quiescent current and shutdown current are all less than 1uA at VIN=5.5V.

The iD3017/A is available in a very small WLCSP 0.87x0.87-4 package.

Ordering Information

iD3017 -

↑ ↑ ↑

Package: Taping
WA4: WLCSP 0.87x0.87-4 R: Tape and Reel

Rising Time	Code
Slow	Blank
Fast	A

Applications

- NB-IOT module
- Hot Swaps
- Cell phones
- Tablet PC
- Set Top Boxes
- Wireless communication module

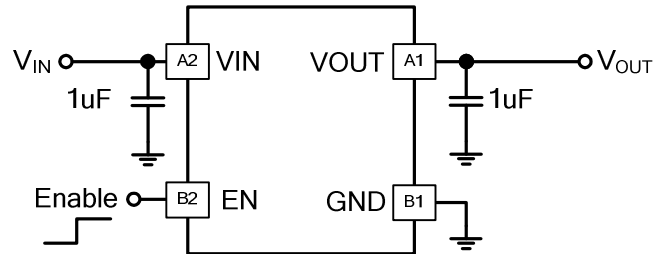
Features

- Less than 1uA Quiescent and Shutdown Current
- 1.4V-5.5V Operating Range
- Low On-Resistance, RDSON=65mohm@VIN=3.3V
- Up to 2A Continuous Output Current
- Active high EN pin
- Output Auto Discharge
- ESD Ratings: 4KV Human body mode

Marking Information

For marking information, please contact our sales representative directly or through distributor around your location.

Typical Application Circuit (Adjustable Operation)



Absolute Maximum Ratings (Note 1)

V_{IN}, V_{OUT}, EN Voltage -0.3V to 7 V

Power Dissipation, P_D @ T_A=25°C

 WLCSP 0.87x0.87 1W

Thermal Resistance, θ_{JA}

 WLCSP 0.87x0.87 100°C/W

Lead Temperature 260°C

Storage Temperature -55°C to 150°C

ESD HBM 4kV

ESD CDM 1kV

ESD MM 300V

Recommended Operating Conditions

Input Voltage V_{IN} 1.4V to 5.5V

Junction Temperature -40°C to 125°C

Ambient Operating Temperature -40°C to 85°C