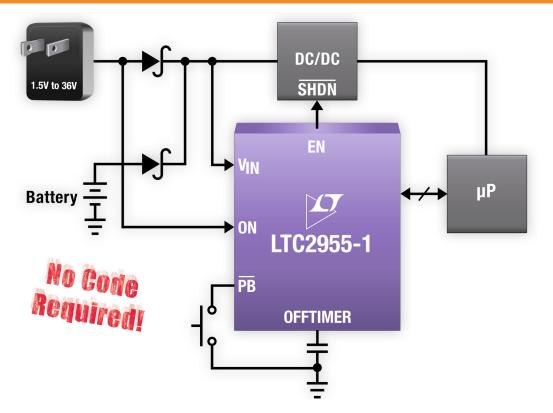




PUSHBUTTON CONTROLLERS

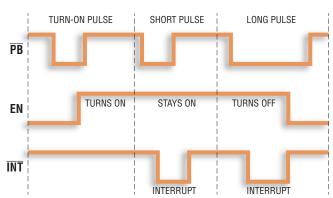


The LTC[®]2955 pushbutton on/off controller manages system power via a pushbutton interface or presence of a supply. Pushbutton controllers typically initiate system power-ups only with the toggle of a pushbutton. However, the LTC2955 will also automatically turn on a system when power is applied from a primary or secondary supply, such as a wall adapter or car battery. When powered up, the LTC2955 can power-down a system via pushbutton and can optionally use interrupt logic to request for a system power-down in menu-driven applications ("soft" shutdown), or automatically power-down a system if the primary or secondary supply is removed.

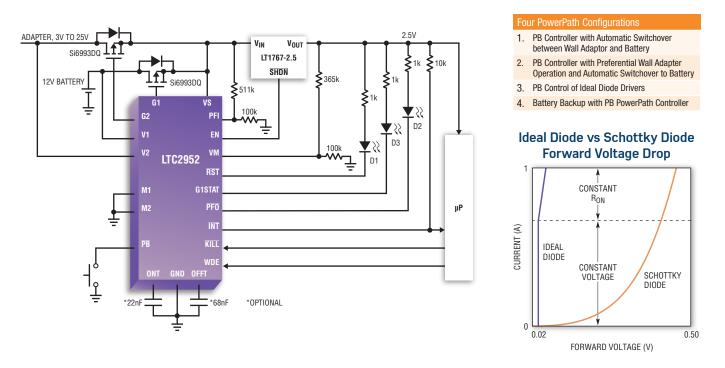
LTC2955 Features

- Automatic Turn-On with Voltage Monitor Input
- Wide Input Supply Range: 1.5V to 36V
- Low Supply Current: 1.2µA
- ±25kV ESD HBM on PB Input
- ▶ ±36V Wide Input Voltage for PB Input
- ► Low Leakage EN Output Allows DC/DC Converter Control (LTC2955-1)
- High Voltage EN Output Drives External P-Channel MOSFET (LTC2955-2)
- Simple Interface Allows Graceful µP Shutdown
- Adjustable Turn-Off Timer
- ▶ 10-Lead 3mm × 2mm DFN and 8-Lead ThinSOT[™] Packages

LTC2955 Pushbutton On/Off with Interrupt



LTC2952 Pushbutton PowerPath Controller with Supervisor



The LTC2952 is a power management device that features three main functions: pushbutton on/off control of system power, ideal diode PowerPath[™] controllers and system monitoring. The pushbutton input, which provides on/off control of system power, has independently adjustable ON and OFF debounce times. A simple microprocessor interface involving an interrupt signal allows for proper system housekeeping prior to power-down. The ideal diode PowerPath controllers provide automatic low loss switchover between two DC sources by regulating two external P-channel MOSFETs to have a small 20mV forward drop. High reliability systems can use the LTC2952's monitoring features including power-fail, voltage monitoring and µP watchdog to ensure system integrity.

Linear Technology Pushbutton Controllers

| Part Number | Description | Supply Voltage | Supply Current | Turn-On Debounce Time | System OK Response Time | Interrupt Debounce Time | Turn-Off Debounce Time | Turn-Off Delay | ESD | Packages |
|-------------|--|-------------------|-------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------|-------------------|-------|--------------------|
| LTC2950 | Basic Pushbutton Controller | 2.7V to 26V | 6μА | Adj | 512ms | Adj | n/a | 1024ms | ±10kV | TSOT-8 DFN-8 |
| LTC2951 | Basic Pushbutton Controller | 2.7V to 26V | 6µА | 128ms | 512ms | Adj | n/a | Adj | ±10kV | TSOT-8 DFN-8 |
| LTC2952 | Pushbutton Controller with 2 Ideal Diode-OR Controllers for Load Sharing or Automatic Switchover Applications | 2.7V to 28V | 25µА | Adj | 400ms | 26ms | Adj | 400ms | ±8kV | TSSOP-20 QFN-20 |
| LTC2953 | Pushbutton Controller with Supply Monitor, UVLO and Power Fail Comparators for Supervisory Applications | 2.7V to 27V | 12µА | 32ms | 512ms | 32ms | Adj | n/a | ±10kV | DFN-12 |
| LTC2954 | Pushbutton Controller with Interrupt Logic for Menu-Driven Applications | 2.7V to 26V | 6μА | Adj | 512ms | 32ms | Adj | n/a | ±10kV | TSOT-8 DFN-8 |
| LTC2955 | Pushbutton Controller with Automatic Turn-On and Interrupt Logic for Menu Driven Applications | 1.5V to 36V | 1.2µA | 32ms | 512ms | 32ms | Adj | n/a | ±25kV | TSOT-8 DFN-10 |
| LTC2956 | Wake-Up Timer with Pushbutton Control | 1.5V to 36V | 1μΑ | 32ms | n/a | 32ms | Adj | n/a | ±25kV | MSOP-12 DFN-12 |

Analog Devices, Inc. Worldwide Headquarters

Analog Devices, Inc. One Technology Way P.O. Box 9106 Norwood, MA 02062-9106 U.S.A. Tel: 781.329.4700 (800.262.5643, U.S.A. only) Fax: 781.461.3113

Analog Devices, Inc. Europe Headquarters

Analog Devices GmbH Otl-Aicher-Str. 60-64 80807 München Germany Tel: 49.89.76903.0 Fax: 49.89.76903.157

Analog Devices, Inc. Japan Headquarters

Analog Devices, KK New Pier Takeshiba South Tower Building 1-16-1 Kaigan, Minato-ku Tokyo, 105-6891 Japan Tel: 813.5402.8200 Fax: 813.5402.1064

Analog Devices, Inc. Asia Pacific Headquarters

Analog Devices 5F, Sandhill Plaza 2290 Zuchongzhi Road Zhangjiang Hi-Tech Park Pudong New District Shanghai, China 201203 Tel: 86.21.2320.8000 Fax: 86.21.2320.8222 ©2017–2018 Analog Devices, Inc. All rights reserved. Trademarks and registered trademarks are the property of their respective owners.Ahead of What's Possible is a trademark of Analog Devices. PH2955-1-8/18(C)

analog.com

