

## UPOR-3305-180 0.18mm 3.3V Power On Reset Circuit (for 2.7V Flash)

### Features

- ◆ 3.3V and 1.8V±10% supply voltage
- ◆ 1.8V digital output signal
- ◆ Tunable reset threshold
- ◆ External reset input
- ◆ Built-in hysteresis
- ◆ Low quiescent current (10mA typ.)
- ◆ Active-high reset signal

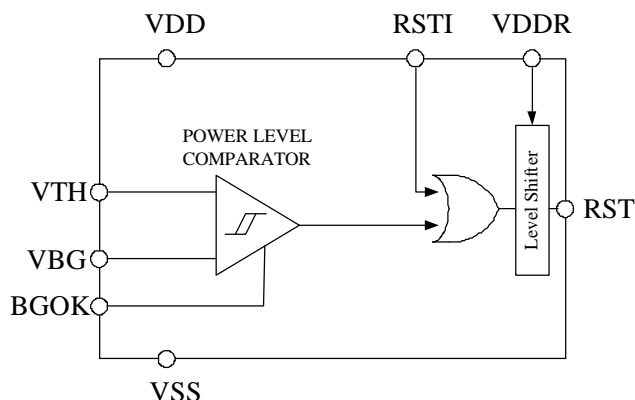
### Applications

- ◆ Microprocessor reset
- ◆ Digital circuit reset
- ◆ Voltage detector

### Overview

The UPOR-3305-180 is a 3.3V power-on-reset (POR) circuit designed as a voltage detector to collaborate with the flash memory controller. The UPOR-3305-180 will be functional when the 3.3V power supply voltage is higher than reset threshold. The output level shifter is powered by an independent supply, which makes the reset signal complied with variable logic level.

### Block Diagram



### Description

The UPOR-3305-180 POR circuit asserts the reset signal immediately according to the result of comparing external reference voltage VBG with external power threshold voltages VTH. An optional input pin RSTI is reserved for external reset source. The UPOR-3305-180 is fabricated in TSMC 0.18μm logic salicide 1P6M 1.8V/3.3V CMOS process with 1P3M layout. The test chip of UPOR-3305-180 is available in a 64-lead LQFP package. The evaluation board is also available with the test chip.

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## **Deliverables**

- ◆ **Comprehensive document set**
- ◆ **Hard macro**
- ◆ **Synopsys™ synthesis model**
- ◆ **Verilog model**
- ◆ **TLF model**
- ◆ **LEF model**
- ◆ **Test chip**
- ◆ **Evaluation board**

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