

## Descriptions

TCS9719 device is low  $R_{ON}$  MOSEFT controlled by external logic pin, allowing optimization of battery life, and portable device autonomy. It includes a P-channel MOSFET that operates over an input voltage range of 1.2V to 5.5V. An on/off input (ON) controls the switch that can interface with low voltage control signals. A 120 $\Omega$  on chip load resistor is added for output quick discharge when the switch is turned off. TCS9719 is packaged in WLCSP-4 with 0.4mm pitch. It is characterized for operation over the free-air temperature range of -40°C to 85°C.

## Applications

- Cellular Phones
- GPS Devices
- Digital Cameras
- Peripheral Ports
- Portable Instrumentation
- RF Modules
- Personal Digital Assistants (PDAs)
- MP3 Players

## Features

- Low-Input Voltage: 1.2V to 5.5V
- Ultra-Low ON-State Resistance
  - $r_{ON}=48m\Omega$  at  $V_{IN}=5.0V$
  - $r_{ON}=50m\Omega$  at  $V_{IN}=4.2V$
  - $r_{ON}=55m\Omega$  at  $V_{IN}=3.6V$
  - $r_{ON}=65m\Omega$  at  $V_{IN}=2.5V$
  - $r_{ON}=85m\Omega$  at  $V_{IN}=1.8V$
  - $r_{ON}=175m\Omega$  at  $V_{IN}=1.2V$
- DC Current Up to 2A
- Ultra-Low Quiescent Current: 67nA at 1.8V
- Ultra-Low Shutdown Current: 33nA at 1.8V
- Low Control Input Thresholds Enable Use of 1.2V/1.8V/3.6V/4.2V/5.0V Logic
- Controlled Slew Rate to Avoid Inrush Current
- Package: WLCSP-4 (0.4mm Pitch)

## Typical Application

