

Product Information

MLX90248 New Generation Micropower & Omnipolar™ Hall-Effect Switch

In 2009, 5 years after its introduction to the market leading to worldwide sales of 400 millions units to the largest mobile phone manufacturers, the MLX90248 is now being upgraded with the latest cutting-edge technology.

Driving transistor-size to sub-microns level, the MLX90248 New Generation brings noticeable key improvements for growing and more demanding portable and handheld devices.

Based on the Hall-Effect principle, the MLX90248 provides a magnetic contact-less and solid-state switching for application where special power management schemes such as standby mode are a must in order to save battery power or reduce overall power-consumption.

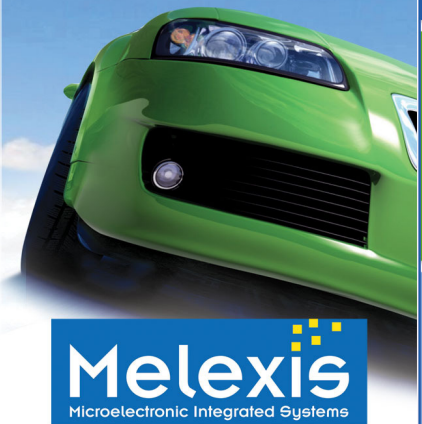
Applications

- Battery-operated / Handheld Appliances
- On/Off Screen (Flip/Slide/Swivel Mobile Phones, Notebooks, Camcorders, Cameras, Portable Media Players...)
- Screen Rotation Detection (Camcorders, Cameras...)
- On/Off (Cameras Lens Cover, Pop-Up Camera Flash, VoIP phones...)

- Appliances with Low Refresh Rate
- Open/Close Detection (Refrigerators, Dishwashers, Washing Machines, Rice cookers, Steamers,...)
- Water Level Detection (Coffee Machines)
- Electric/Electronic Lock Position Detection

Features

- Micropower Consumption : 5uA@3V ; 3uA@1.5V
- Omnipolar™ : North & South Pole Active
- High Sensitivity : 6mT max (60Gauss)
- Operation Down to 1.5V
- Operating Voltage from 1.5 to 3.6V
- Open Drain Output
- 8kV ESD protection
- "Green" and "Pb-Free" Compliant Packages
- Thin SOT23-3L & Ultra Thin CSP package



Bus ICs

BLDC Motor
Control ICs

Pressure Sensors

Wireless ICs

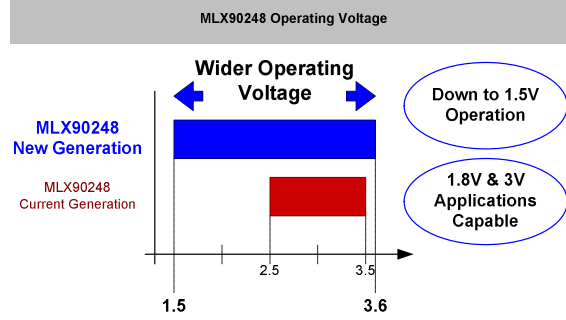
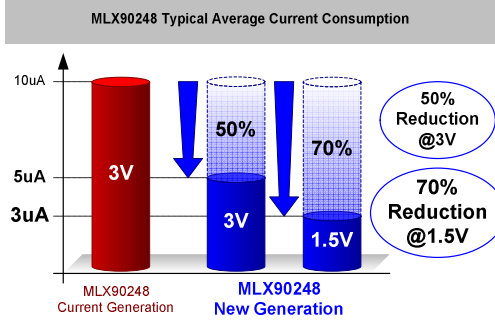
Hall Effect ICs
And Sensors

Optoelectronic
Sensors

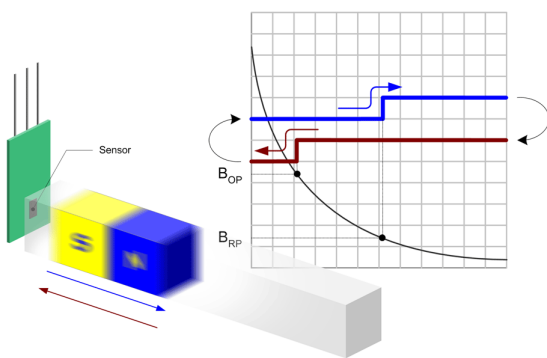
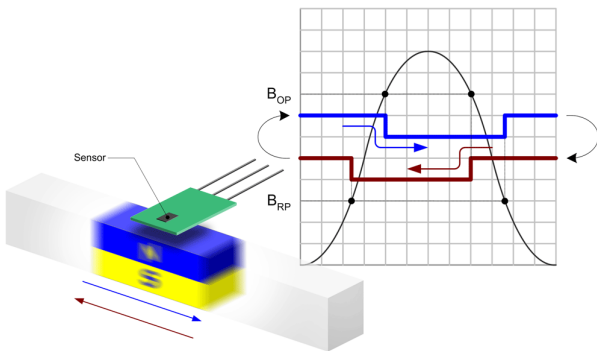
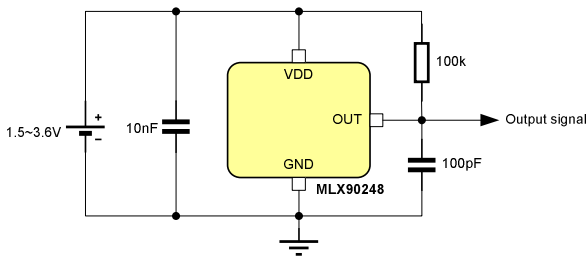
Sensor Interface ICs

Infrared Sensors

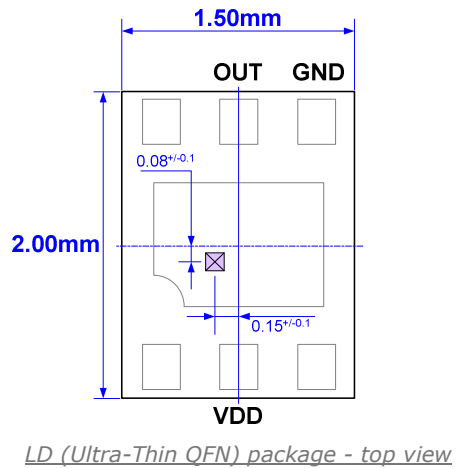
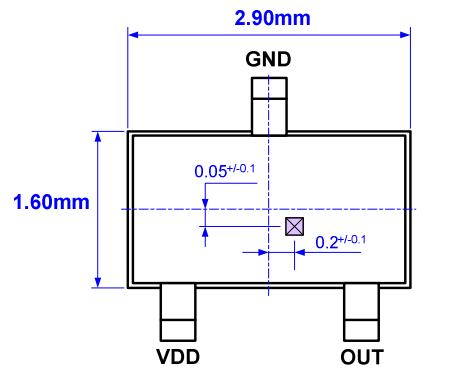
MLX90248—New Generation—Key Improvements



Application



Pin-out & Hall Plate Location

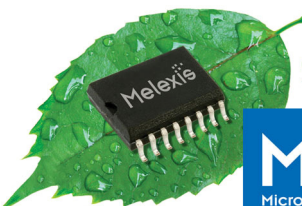


Only 0.4mm thick!
 ...The industry's thinnest available CSP package

For additional information email info@melexis.com or go to our website at: www.melexis.com

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- Wireless ICs
- Hall Effect ICs And Sensors
- Optoelectronic Sensors
- Sensor Interface ICs
- Infrared Sensors