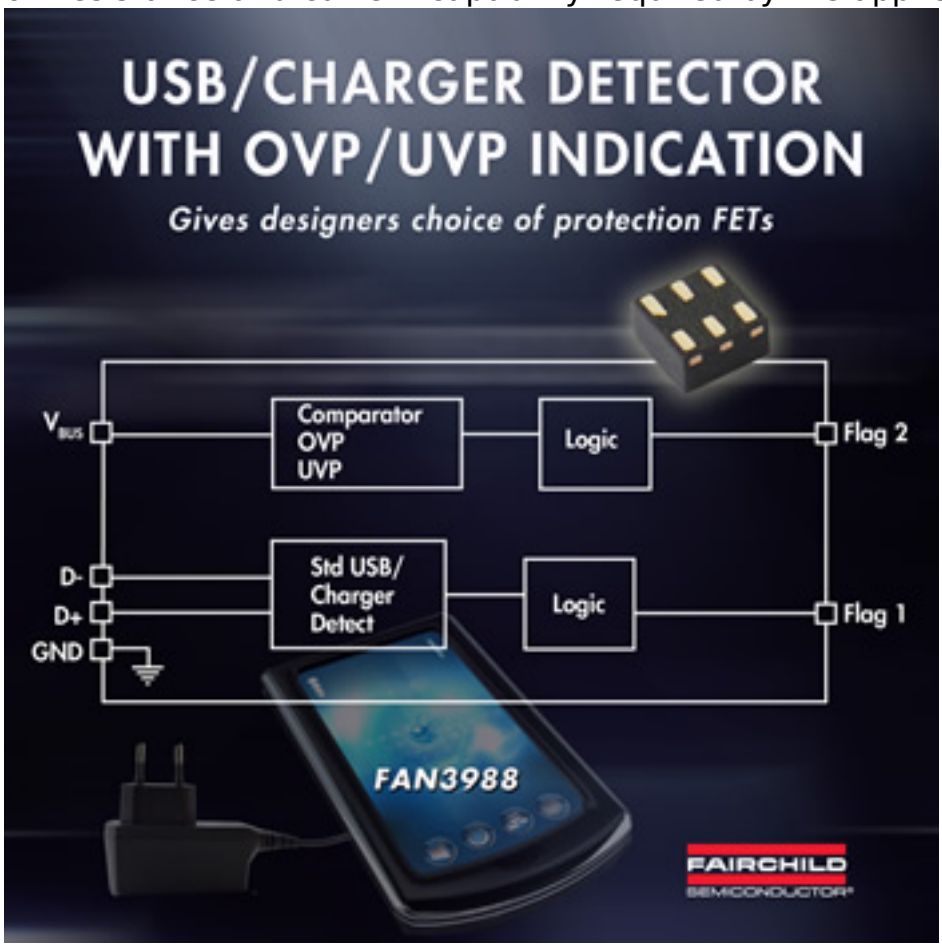
Fairchild Semiconductor Announces Over-Voltage Protection Device with USB/Charger-Detection for Portable Applications

Fairchild Semiconductor

SAN JOSE, Calif. – March 4, 2010 –Fairchild Semiconductor [1] (NYSE: FCS) offers designers of cell phones and handheld mobile products a device with highly integrated over-voltage protection (OVP) as well as USB/charger-detection capabilities. The newest member of Fairchild's OVP family, the FAN3988 [2], allows the end user the flexibility to select an external P-Channel MOSFET with the specific on-resistance and current capability required by the application.



[2]

The FAN3988 [2] has built-in automatic detection allowing the device to sense the presence of a USB charger by continuously monitoring the D+ / D- lines for a shorted condition. In addition the device also monitors the VBUS for an over or under voltage condition. When an over-voltage threshold condition is reached the device will immediately disable the external P-Channel MOSFET. These features reduce the design complexity and eliminate external circuitry, saving board space. This new OVP device is ideal for addressing emerging standards for over voltage protection, which is particularly important for cell phones.

The FAN3988 [2] is the newest member of a family of charger front-end integrated circuits designed to provide Li-ion batteries protection from failures of the charging circuit. Another member in the family is the FAN3989 [3] which is similar to FAN3988 but includes a MOSFET inside the package. The FAN3988 [2] is packaged in an ultra-compact 6-lead MicroPak™ MLP. It utilizes lead-free (Pb-free) terminals and has been characterized for moisture sensitivity in accordance with the Pb-free reflow requirements of the IPC/JEDEC standard J-STD-020.

Price (each, 1k pcs.): $0.24

Availability: Samples available now

Delivery: 6 weeks

Contact Information:

To contact Fairchild Semiconductor about this product, please go to: http://www.fairchildsemi.com/cf/sales_contacts/ [4].

For information on other products, design tools and sales contacts, please visit: http://www.fairchildsemi.com [5].

Note to Editor: For a datasheet in PDF format, please go to: http://www.fairchildsemi.com/ds/FA/FAN3988.pdf [6]

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About Fairchild Semiconductor:
Fairchild Semiconductor [12] (NYSE: FCS) – global presence, local support, smart ideas. Fairchild delivers energy-efficient, easy-to-use and value-added

semiconductor solutions for power [13] and mobile [14] designs. We help our customers differentiate their products and solve difficult technical challenges with our expertise in power and signal path products. Please contact us on the web at www.fairchildsemi.com [12].

SOURCE [15]

Source URL (retrieved on *03/10/2014 - 12:35am*):
http://www.ecnmag.com/news/2010/03/fairchild-semiconductor-announces-over-voltage-protection-device-usb/charger-detection-portable-applications?qt-video_of_the_day=0

Links:
[1] http://www.fairchildsemi.com/index.html
[2] http://www.fairchildsemi.com/pf/FA/FAN3988.html
[3] http://www.fairchildsemi.com/pf/FA/FAN3989.html
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