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May 2014

FSA9485 — USB Port Multimedia Switch Featuring Automatic Switching and Accessory Detection

Features

- Detection:
 - Headsets with MIC and Remote
 - USB Data Cable
 - UART Serial Link
 - USB Chargers (Car, CDP, DCP)
 - Factory-Mode Cables
 - Teletype (TTY) Converter
 - USB OTG
 - CEA-936-A Car Kit
 - Video
- Audio, USB, UART, Video, Charging
- Full-Speed and High-Speed 2.0 Compliant
- Automatic Switching with Available Interrupt
- Integrated FET, Charger Detect, OCP (1.5 A), OVT (28 V), 7 V OVP
- Left, Right, MIC (Negative Swing)

UART: RxD & TxDVideo: Composite

V_{BAT}: 3 to 4.4 V
 Programmability: I²C

■ 15 kV IEC 61000-4-2 Air Gap

Description

The FSA9485 is a high-performance multimedia switch featuring automatic switching and accessory detection for the USB port. The FSA9485 allows the sharing of a common USB port to pass audio, video, USB data / charging / On-The-Go (OTG), as well as factory programmability.

In addition, the FSA9485 integrates detection for accessories such as headphones, headsets (MIC / Button), CEA-936-A Car Kit, USB chargers, and UART data cables to use a common USB connector. The FSA9485 can be programmed for manual switching or automatic switching of data paths based on the accessory detected.

With integrated 28 V over-voltage protection and 1.5 A over-current protected FET, the FSA9485 integrates common USB protection devices for V_{BUS} .

Applications

■ Mobile Phones & Portable Media Players

Additional Information

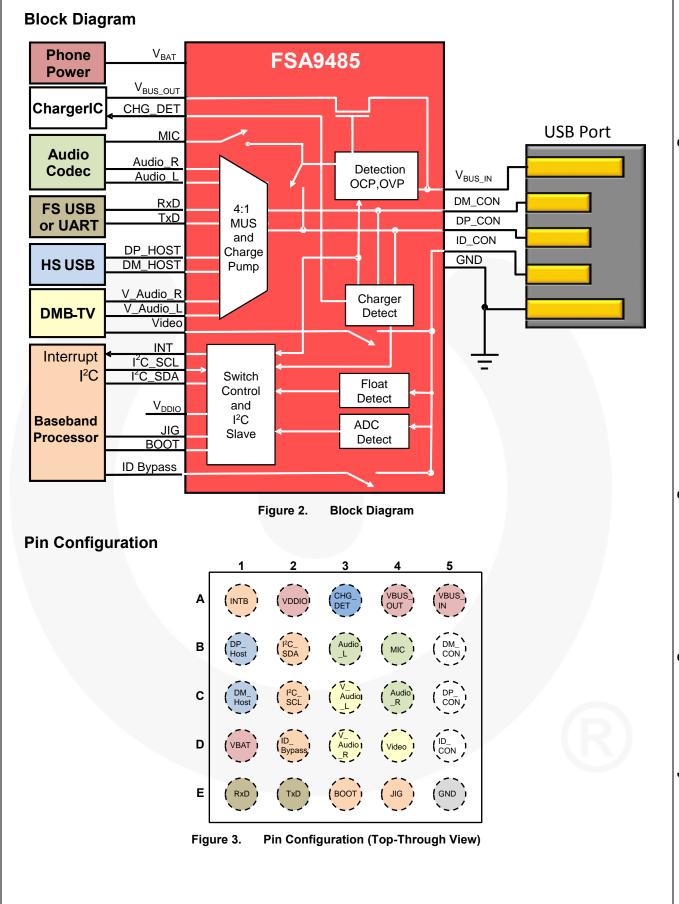
 For additional performance information, please contact <u>analogswitch @fairchildsemi.com</u>.

Ordering Information

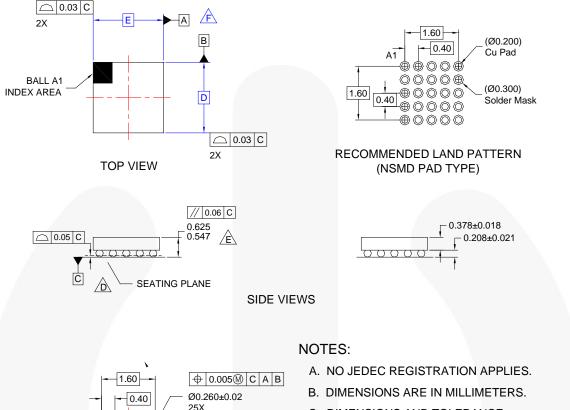
Part Number	Operating Temperature Range	Top Mark	Package
FSA9485UCX (1)	-40 to +85°C	N6	25-Lead, 2.1 x 2.1 x 0.625 mm WLCSP Package

Note:

1. Includes backside lamination.



Physical Dimensions



BOTTOM VIEW

- C. DIMENSIONS AND TOLERANCE PER ASMEY14.5M, 1994.
- DATUM C IS DEFINED BY THE SPHERICAL CROWNS OF THE BALLS.
- EXPACKAGE NOMINAL HEIGHT IS 586 MICRONS ±39 MICRONS (547-625 MICRONS).
- FOR DIMENSIONS D, E, X, AND Y SEE PRODUCT DATASHEET.
 - G. DRAWING FILNAME: MKT-UC025AArev2.

Figure 25. 25-Lead, Wafer-Level Chip-Scale Package (WLCSP)

Product-Specific Dimensions

Product	D	E	X	Y
FSA9485UCX	2.10	2.10	0.25	0.25

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Datasheet Identification Product Status		Definition	
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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.	
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