FAIRCHILD SEMICONDUCTOR®

LIMITED DATASHEET

Email Analog.Switch@fairchildsemi.com to request the full datasheet.

March 2012

FSA8029
Audio Jack Send / End Detection with MIC / Video Switch

Features

Detection	Accessory Plug-In 3- or 4-Pole Audio Jack Send / End Key Pressed
Switch Type	Microphone & Video
V_{DD}	2.5 to 4.3V
THD (MIC)	0.01% Typical
ESD (Air Gap)	16kV
Operating Temperature	-40°C to 85°C
Package	10-Lead UMLP 1.4x1.8x0.5mm, 0.4mm Pitch
Top Mark	KS
Ordering Information	FSA8029UMX

Applications

- 3.5mm and 2.5mm Audio Jacks
- Cellular Phones, Smartphones
- MP3 and PMP

Description

The FSA8029 is an audio jack microphone / video switch for 3- or 4-pole accessories with send / end (S/E) detection. In addition to detection, the FSA8029 features an integrated microphone / video switch that allows the processor to configure the audio jack. The architecture is designed to allow common third-party headphones to be used for listening to music from mobile handsets, personal media players, and portable peripheral devices.

- Determines when Send / End Button Key is Pressed
- Integrates a MIC / Video Switch for 4-Pole Configuration
- Reduces Pop / Click Caused by Microphone Bias

Related Resources

- *For samples and questions, please contact: Analog.Switch@fairchildsemi.com.*
- *FSA8029 Demonstration Board*

Typical Application

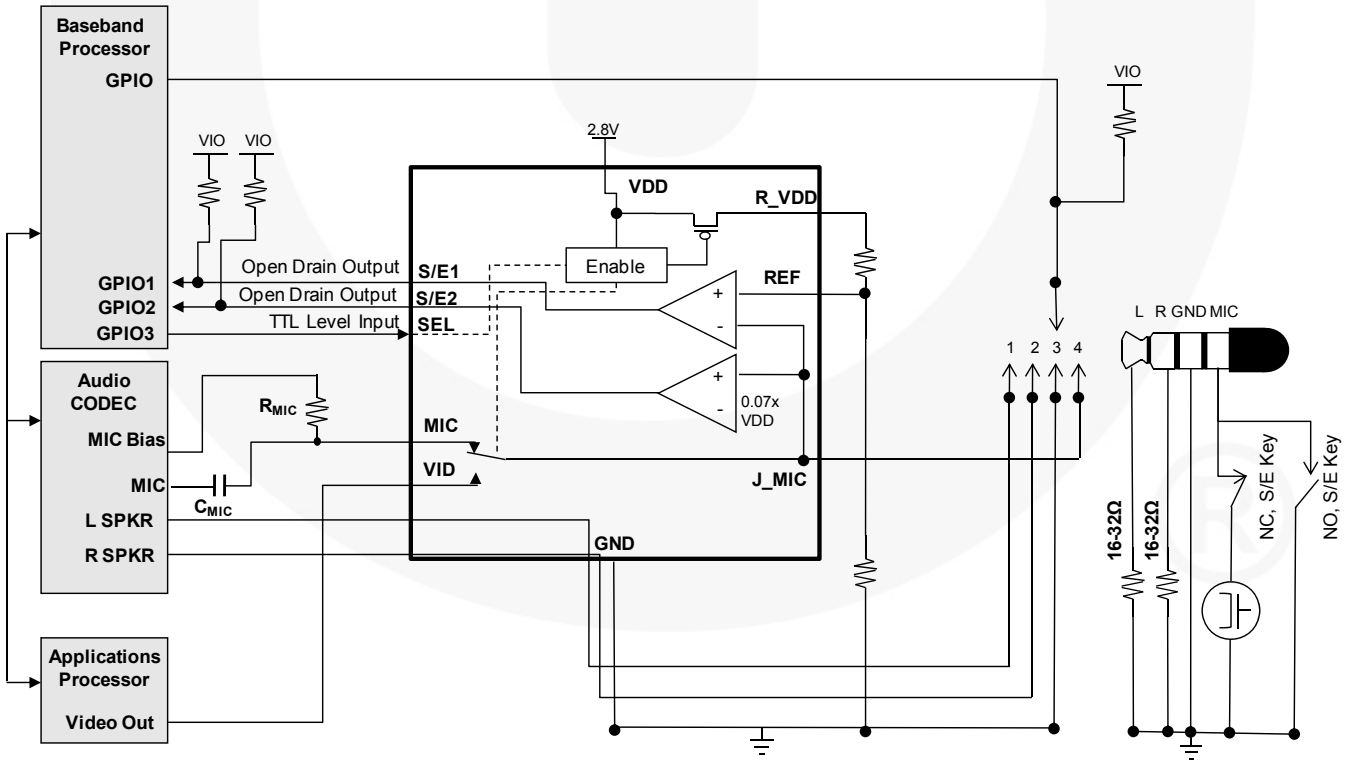
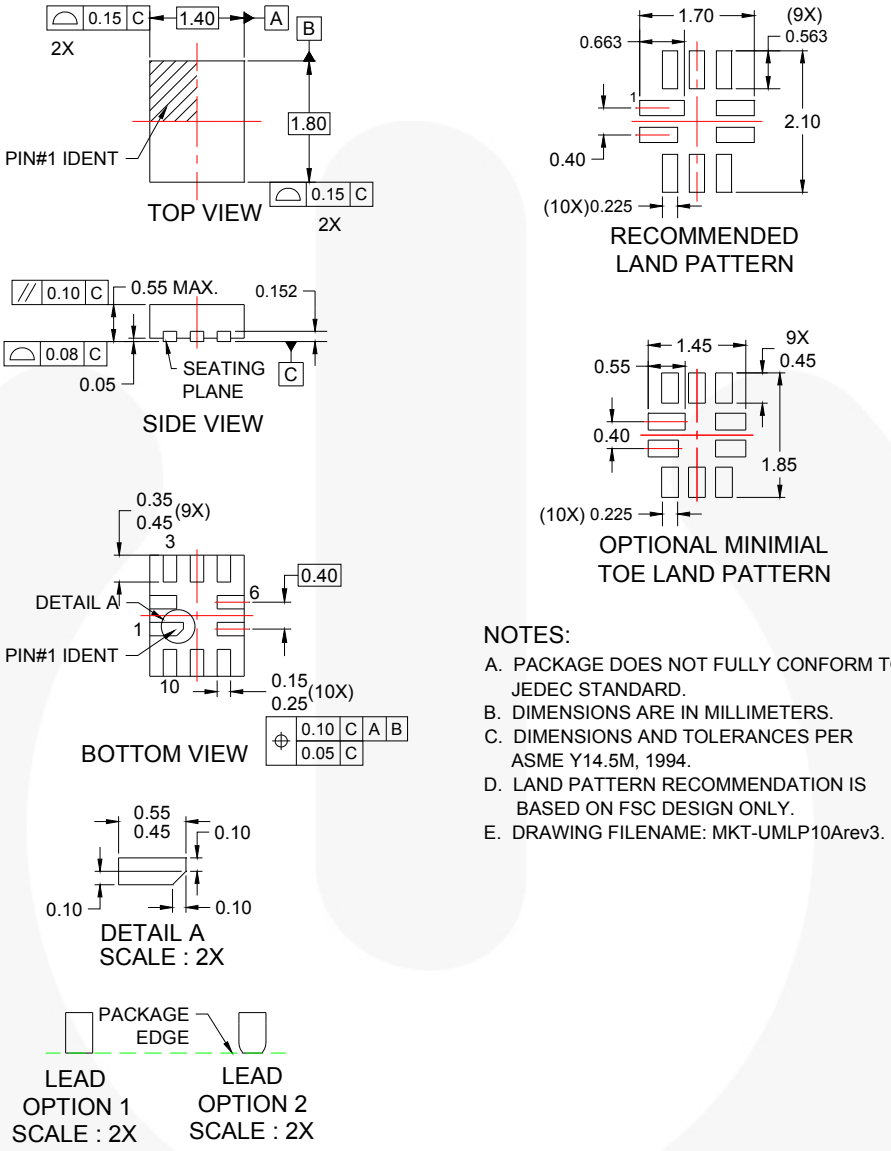


Figure 1. Mobile Phone Example

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Physical Dimensions



NOTES:

A. PACKAGE DOES NOT FULLY CONFORM TO JEDEC STANDARD.
B. DIMENSIONS ARE IN MILLIMETERS.
C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.
D. LAND PATTERN RECOMMENDATION IS BASED ON FSC DESIGN ONLY.
E. DRAWING FILENAME: MKT-UMLP10Arev3.

Figure 3. 10-Lead, UMLP Package

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Ordering Information

Part Number	Operating Temperature Range	Top Mark	Package
FSA8029UMX	-40 to +85°C	KS	10-Lead 1.4 x 1.8 x 0.55mm, 0.4mm Pitch, Ultrathin Molded Leadless Package (UMLP)

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