



FSA8028

Audio Jack Detection and Configuration Switch

Features

Detection	Accessory Plug-In 3- or 4-Pole Audio Jack Send/End Key Pressed
Functionality	Decreased Timing for Sensitive Send/End Keys
Switch Type	MIC
V _{DD}	2.5 to 4.4 V
V _{IO}	1.6 to V _{DD}
THD (MIC)	0.01% Typical
ESD (Air Gap)	15 kV
Operating Temperature	-40°C to 85°C
Package	10-Lead UMLP 1.4x1.8x0.5 mm, 0.4 mm Pitch
Top Mark	KZ
Ordering Information	FSA8028UMX

Description

The FSA8028 is an audio jack detector and switch for 3- or 4-pole accessories. In addition to detection, the FSA8028 features an integrated MIC 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 3- or 4-Pole Audio Jacks
- Removes Audio Jack Pop-n-Click Caused by MIC Bias
- Detects Audio Jack Accessories:
 - Standard Headphones
 - Headsets with MIC
 - Send / End Button Presses
- Integrates a MIC Switch for 4-Pole Configuration

Related Resources

- For samples and questions, please contact:
Analog.Switch@fairchildsemi.com.

Applications

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

Typical Application

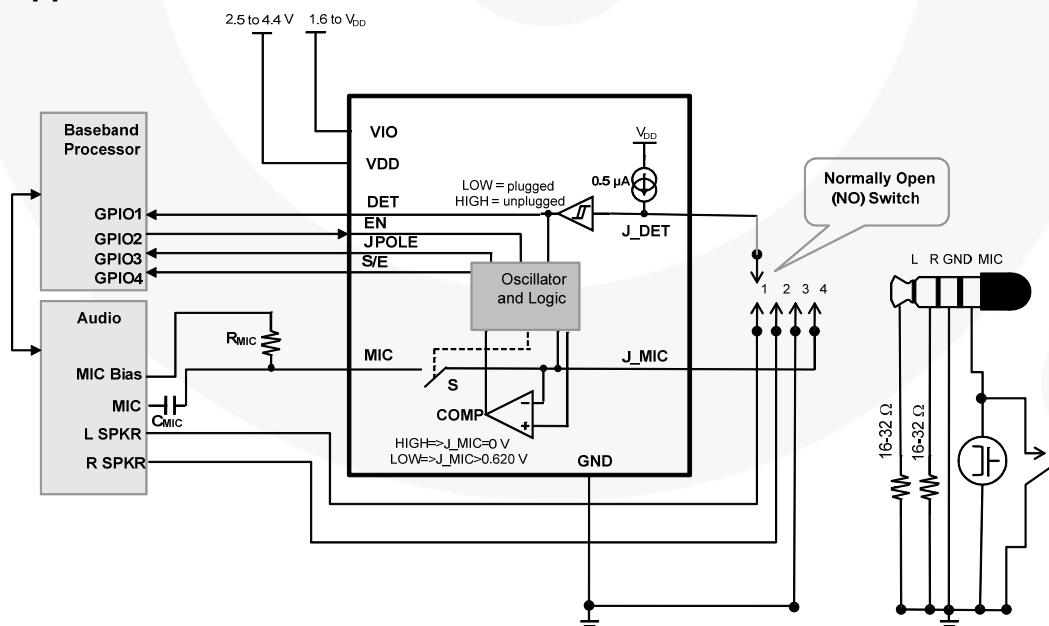


Figure 1. Mobile Phone Example

Physical Dimensions

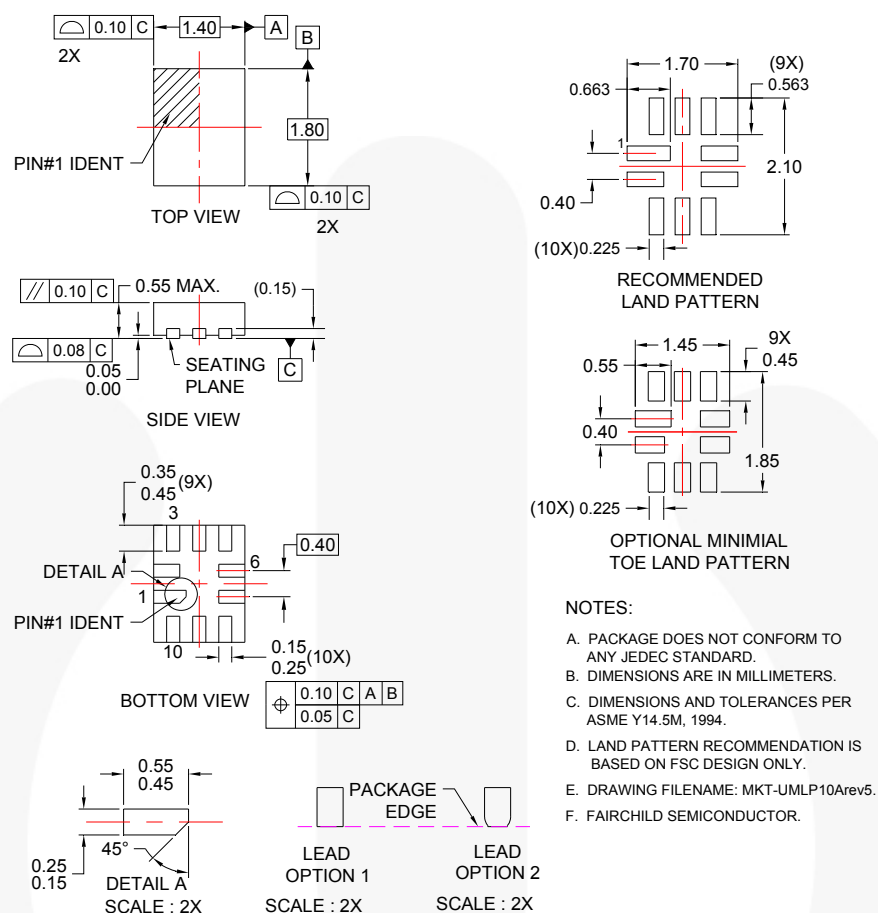


Figure 4. 10-Lead UMLP Package Drawing

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<http://www.fairchildsemi.com/packaging/>.

Table 4. Nominal Values

JEDEC Symbol	Description	Nominal Values (mm)
A	Overall Height	0.5
A1	Package Standoff	0.072
A3	Lead Thickness	0.152
b	Lead Width	0.4
L	Lead Length	0.2
e	Lead Pitch	0.4
D	Body Length (Y)	1.8
E	Body Width (X)	1.4

Ordering Information

Part Number	Operating Temperature Range	Top Mark	Package
FSA8028UMX	-40 to +85°C	KZ	10-Lead, 1.4 x 1.8 x 0.55 mm, 0.4 mm Pitch, Ultrathin Molded Leadless Package (UMLP)



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