

FSA850 Audio 3-Pole / 4-Pole MIC-GND Switch

Features

Switch Type	3-Pole/4-Pole MIC - GND		
V _{cc}	2.3 to 4.5 V		
THD (MIC)	0.001% Typical		
ESD			
IEC 61000-4-2 (Air Gap)	15 kV		
IEC 61000-4-2 (Contact)	8 kV		
HBM (All Pins)	3 kV		
GNDnA/GNDnB to GND	8 kV		
Power to GND	10 kV		
CDM	2 kV		
Operating Temperature	-40°C to 85°C		
R _{ON} Maximum (GND1n)	0.08 Ω		
R _{ON} Maximum (SENSE)	1 Ω		

Applications

- 3.5 mm and 2.5 mm Audio Jacks
- Cellular Phones, Smart Phones
- MP3 and PMP (Portable Media Player)

Typical Application

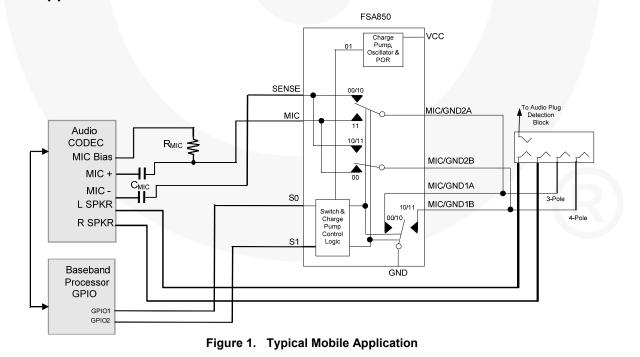
Description

The FSA850 is a 3-pole or 4-pole audio jack microphone GND switch for accessories with General-Purpose Input / Output (GPIO) control signals. The FSA850 also has the ability to perform 4-pole cross-point switching to support Open Mobile Terminal Platform (OMTP) 4-pole headset plugs. The architecture is designed to replace discrete MOSFET solutions and allow common third-party headphones to be used for listening to music or playing video from mobile handsets, personal media players, and portable peripheral devices.

- Supports 4-Pole OMTP Cross Point Switching for GND Connection
- Integrates a MIC switch for 3- or 4-Pole Configuration Headset Plugs
- Reduces "Pop and Click" Caused by Microphone Bias

Related Resources

 For samples and questions, please contact: <u>Analog.Switch@fairchildsemi.com</u>.



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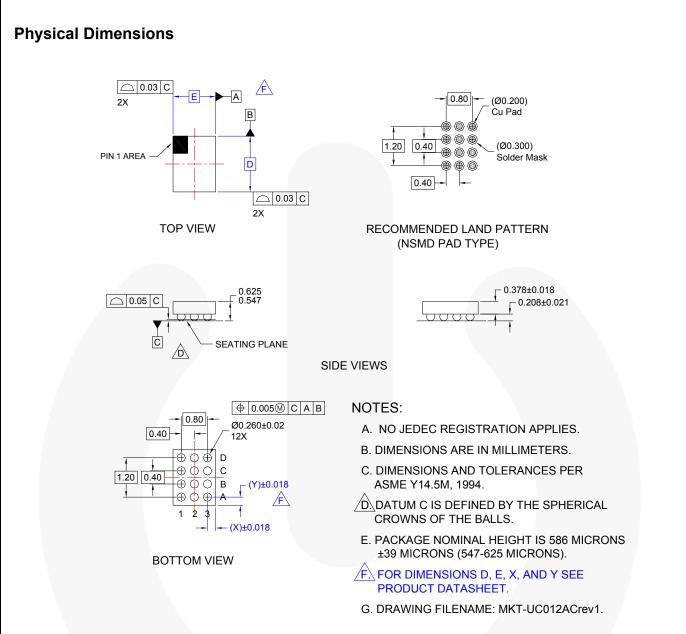


Figure 4. 12-Bump, Wafer-Level Chip Scale Package (WLCSP), 1.2mmx1.6mm, 0.4mm Pitch

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Ordering Information

Part Number	Operating Temperature Range	Top Mark	Package	D	E	x	Y
FSA850UCX	-40 to +85°C	M5	12-Ball, Wafer-Level Chip-Scale Package (WLCSP), 3x4 Array, 0.4mm Pitch, 250 μm Ball	1.16 mm	1.56 mm	0.18 mm	0.18 mm

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