



EMIF06-SD02F3

IPAD™

6 line EMI filter and ESD protection for SD card

Data Brief

Main application

- Removable memory cards in mobile phones, communication systems, and portable applications
- Compliant with: SD (standard and high speed) /MiniSD/ μ SD and MMC/Trans-flash standards

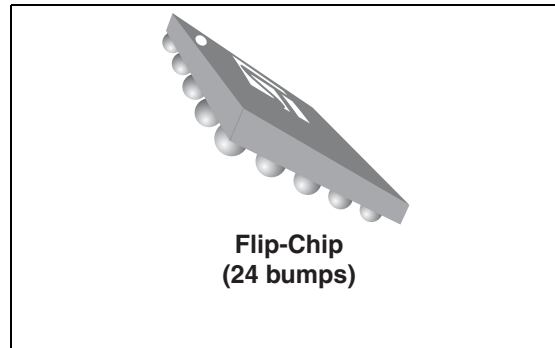
Description

The EMIF06-SD02F3 is a highly integrated device based on IPAD technology combining 5 functions:

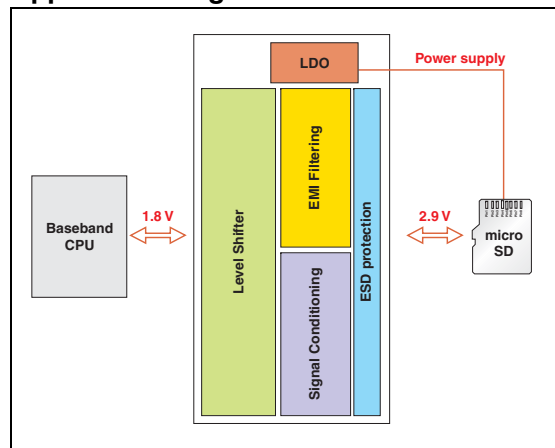
- ESD protection (IEC standard)
- EMI Filtering
- Level translator
- Signal conditioning
- Integrated power supply with thermal shutdown (TSD), under voltage lockout (UVLO), and short-circuit current limitation (I_{SC})

Benefits

- EMI Low-pass-filter and ESD protection (up to 15 kV on external pins)
- Integrated pull up resistors to prevent bus floating
- 50 MHz clock frequency compatible with $C_{line} < 40$ pF
- Lead-free package in 400 μ m pitch
- Low power consumption
- Very low PCB space consumption
- High reliability offered by monolithic integration
- Reduction of parasitic elements thanks to CSP integration



Application diagram



Complies with the following standards:

IEC 61000-4-2, Level 4:

External pins 15 kV (air discharge)
 8 kV (contact discharge)

2 kV - HBM IEC 61340-3-1:

Internal pins 2 kV (air discharge)
 2 kV (contact discharge)

TM: IPAD is a trademark of STMicroelectronics.

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Rev 1

1/3

For further information contact your local STMicroelectronics sales office.

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1 Ordering information

Part Number	Marking	Package	Weight	Base qty	Delivery mode
EMIF06-SD02F3	HF	Flip-Chip	7.45 mg	5000	Tape and reel (7")

*Note: More information is available in the application note :
AN2348 : "Flip Chip : Package description and recommendations for use"
AN1751 : EMI Filters: Recommendations and measurements*

2 Revision history

Date	Revision	Changes
06-Mar-2007	1	First issue

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