



FINGERPRINTS

# BIOMETRIC TOUCH SOLUTION FOR SMART CARDS

FPC1323

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The FPC1323 sensor is using an improved image capture technology that enables even better image capture over a wide range of different finger types and conditions. The FPC1323 sensor support secure transmission of images both protected with integrity and ciphering. Fingerprints' T-shape module is adopted for existing industry standard process delivered on 35 mm reel (dual-row), enabling high volume mass production, high reliable implanting for a low total card cost. The T-shape is created to fit existing mill and drill mass production making an aesthetic design integration of the sensor in the card possible. Compact size and ultra-low power consumption makes it optimal to use in contact or contactless applications.

| PARAMETER                 | DESCRIPTION                           | VALUE           | UNIT     |
|---------------------------|---------------------------------------|-----------------|----------|
| Interface                 |                                       | Half-duplex SPI | Max 4MHz |
| Supply voltage            | VDD voltage, typical                  | 1.8             | V        |
| Supply current            | Image capture, typical                | 4.0             | mA       |
| Supply current Sleep Mode | With 1s finger detection polling      | 9               | µA       |
| Sensor ESD protection     | IEC61000-4-2, level X , air discharge | ±15             | kV       |
| Sensor Wear-and-tear      | No of wear cycles at 0.6N             | >10 million     | times    |
| Operating temperature     |                                       | -40 to +85      | °C       |
| Dimensions, T-shape       | W x L x H                             | 13.2*13.5*0.5   | mm       |

## TOUCH SENSOR FPC1323 T-SHAPE

### FEATURES:

- Compact standalone biometric module (SiP)
- Compatible with soldering, ACF and other interconnect technologies
- Ultra-thin package: 500 µm
- Developed to comply with ISO 7816-1 smartcards
- Excellent 3D image quality
- Superior imaging quality with 256 true grey scale values in every pixel
- Bendable: Robust and fulfill industry standard requirements
- Compact and easy to integrate
- Robust protective coating capable of more than 10 million finger placements
- Full ESD protection to more than +/-15kV
- Ultra-low power consumption
- 1.8 V operation
- FPC1323 T-shape available on 35 mm reel dual-row

