FPC1030

FEATURES
• Swipe sensor
• Compact, low cost
• LVDS interface, 1 - 8 Mpixel/s
• 3.3 volt operation, power down mode
• Robust surface coating
• >15Kv ESD protection

APPLICATION EXAMPLES
• Mobile Phones
• PDAs
• Portable Computers
• Smart Cards

GENERAL DESCRIPTION
The FPC1030 is a third-generation extremely compact, versatile monolithic fingertip pattern sensor implemented in a 0.5µm triple metal CMOS process. The sensor works by sensing the small variations in surface-capacitance when a fingertip is swiped over the surface of the chip.

QUICK REFERENCE DATA

<table>
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<th>Symbol</th>
<th>Parameter</th>
<th>Conditions</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
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<td>Digital supply voltage</td>
<td></td>
<td>3.15</td>
<td>3.3</td>
<td>3.45</td>
<td>V</td>
</tr>
<tr>
<td>VDDA</td>
<td>Analog supply voltage</td>
<td></td>
<td>3.15</td>
<td>3.3</td>
<td>3.45</td>
<td>V</td>
</tr>
<tr>
<td>IDD</td>
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<td>CE active</td>
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<td>64</td>
<td>mA</td>
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<td>IDDQ</td>
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<td>CE inactive, no finger</td>
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<td>15</td>
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<td>µA</td>
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</tbody>
</table>

Pixel cell size: 70x70 µm
Number of pixels: 152x32 pixels
Active sensing area: 10.64x2.24 mm
Resolution: 363 dpi
Pixel resolution: 8 bits

Table 1. Quick reference data.