Key features and benefits
› Available in DFN0603, DFN0606, DFN1006, DSN1006, DSN1010, DFN1010, DFN2020 and WLCSP packages
› High power capability (WLCSP)
› Space efficiency with smallest DFN, DSN and WLCSP
› Side-wettable flanks for optical solder inspection
  - Leadless packages contain tin plated side contacts for automatic optical inspection (DFN2020, DFN1010, DFN1006, DFN0606) (AOI) and improved solder joint quality
› Replacement of larger packages
  - Performance improvements in wafer technology and in package technology
› Pitch size compatibility across DFN0606 and DFN1006
› Improved $R_{\text{DS(\text{on})}}$ performance
› Most types with ESD protection up to 2 kV
› Broad portfolio’s for optimum choice:
  - N-Channel and P-Channel
  - $R_{\text{on}}$ voltage range of 12 V – 100 V

Applications
› Load switching
› Wireless charging
› Battery switch
› LED driver
› Level translator
› DC / DC conversion
› Relay driver

Specialised for space-constrained applications:
› Notebook
› Smartphone
› LCD TV
› Tablet
› Headphones
› E-cigarette
› Fitness band / smart watch
› Hearing aids

Space efficiency with smallest DFN solutions

DFN2020
2.0 x 2.0 x 0.65 mm
4.0 mm² footprint area

DFN1010
1.1 x 1.0 x 0.37 mm
1.1 mm² footprint area

DFN1006
1.0 x 0.6 x 0.48 mm
0.60 mm² footprint area

DFN0603
0.63 x 0.33 x 0.25 mm
0.20 mm² footprint area

DFN0606
0.62 x 0.62 x 0.37 mm
0.38 mm² footprint area

Side-wettable flanks
(DFN2020, DFN1010, DFN1006, DFN0606)
<table>
<thead>
<tr>
<th>Package</th>
<th>DSN1006-3</th>
<th>DSN1010-3</th>
<th>DFN1010D-3</th>
<th>DFN1010B-6</th>
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</thead>
<tbody>
<tr>
<td>P_{on} (mW)</td>
<td>440</td>
<td>1200</td>
<td>1200</td>
<td>350</td>
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<tr>
<td>Configuration</td>
<td>Pol.</td>
<td>V_{GS} (V)</td>
<td>V_{DS} (V)</td>
<td>I_{D} (A)</td>
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<tr>
<td>Single</td>
<td>N</td>
<td>12</td>
<td>8</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
<td>8</td>
<td>0.4</td>
</tr>
<tr>
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<td>8</td>
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</table>

**Beacon**

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