1. Packing method

Fig. 1. Reel pack for SMD

Table 1. Dimensions and quantities

<table>
<thead>
<tr>
<th>Package version</th>
<th>12 NC ending</th>
<th>Orderable part number ending</th>
<th>Reel dimensions d × w (mm)[1]</th>
<th>SPQ/PQ (pcs)[2]</th>
<th>Reels per box</th>
<th>Outer box dimensions l × w × h (mm)[3]</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOT23</td>
<td>235</td>
<td>235 or VL</td>
<td>286 × 8</td>
<td>10000</td>
<td>1</td>
<td>291 × 290 × 17</td>
</tr>
</tbody>
</table>

[1] d = reel diameter; w = tape width.
2. Product orientation

Tape pocket quadrants
Pin 1 is in quadrant Q3/T4

Fig. 2. Product orientation in carrier tape

3. Carrier tape dimensions

Not drawn to scale

Fig. 3. Plastic/Embossed carrier tape

Table 2. Carrier tape dimensions
In accordance with IEC 60286-3

<table>
<thead>
<tr>
<th>A₀ (mm)</th>
<th>B₀ (mm)</th>
<th>K₀ (mm)</th>
<th>T (mm)</th>
<th>P₁ (mm)</th>
<th>W (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 ± 0.2</td>
<td>2.7 + 0.2 / - 0.1</td>
<td>1.20 + 0.12 / - 0.15</td>
<td>0.20 + 0.02 / - 0.04</td>
<td>4.0 ± 0.1</td>
<td>8.0 + 0.3 / - 0.1</td>
</tr>
</tbody>
</table>
4. Reel dimensions

![Schematic view of reel](image)

**Fig. 4. Schematic view of reel**

**Table 3. Reel dimensions**

*In accordance with IEC 60286-3*

<table>
<thead>
<tr>
<th>A [nom] (mm)</th>
<th>W2 [max] (mm)</th>
<th>B [min] (mm)</th>
<th>C [min] (mm)</th>
<th>D [min] (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>286</td>
<td>14.4</td>
<td>1.5</td>
<td>12.8</td>
<td>20.2</td>
</tr>
</tbody>
</table>
5. Barcode label

Fig. 5. Example of typical box information barcode label

Fig. 6. Example of typical reel information barcode label

Table 4. Barcode label dimensions

<table>
<thead>
<tr>
<th>Box barcode label</th>
<th>Reel barcode label</th>
</tr>
</thead>
<tbody>
<tr>
<td>l × w (mm)</td>
<td>l × w (mm)</td>
</tr>
<tr>
<td>100 × 75</td>
<td>36 × 75</td>
</tr>
</tbody>
</table>

6. Revision history

Table 5. Revision history

<table>
<thead>
<tr>
<th>Document ID</th>
<th>Release date</th>
<th>Modifications</th>
<th>Supersedes</th>
</tr>
</thead>
</table>
| SOT23_235 v.3   | 20200507     | • The format of this packing information document has been redesigned to comply with the identity guidelines of Nexperia.  
• **Fig. 1:** Updated packing method drawing.  
• **Table 1:** Outer box dimensions updated.  
• **Table 2:** Tolerances added to carrier tape dimensions.  
• **Section 4:** Added reel drawing and dimensions.  
• **Section 5:** Added barcode label drawing and dimensions.  
• Legal texts have been adapted to the new company name where appropriate. | SOT23_235 v.2 |
| SOT23_235 v.2   | 20130205     | -                                                                             | SOT23_235 v.1  |
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