1. Packing method

![Reel pack for SMD](image)

**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 $d \times w$ (mm)$[1]$</th>
<th>SPQ/PQ (pcs)$[2]$</th>
<th>Reels per box</th>
<th>Outer box dimensions $l \times w \times h$ (mm)$[3]$</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOD323</td>
<td>135</td>
<td>135 or F</td>
<td>286 x 8</td>
<td>10000</td>
<td>1</td>
<td>291 x 290.3 x 17</td>
</tr>
</tbody>
</table>

$[1]$ $d$ = reel diameter; $w$ = tape width.


2. Product orientation

<table>
<thead>
<tr>
<th>Q1/T1</th>
<th>Q2/T3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q3/T4</td>
<td>Q4/T2</td>
</tr>
</tbody>
</table>

Tape pocket quadrants

Cathode band in Q1/T1-Q2/T3

Fig. 2. Product orientation in carrier tape

3. Carrier tape dimensions

Table 2. Carrier tape dimensions

<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>1.20 ± 0.10</td>
<td>2.80 ± 0.10</td>
<td>1.20 ± 0.10</td>
<td>0.20 ± 0.02</td>
<td>4.0 ± 0.1</td>
<td>8.0 ± 0.1</td>
</tr>
</tbody>
</table>

In accordance with IEC 60286-3

Fig. 3. Plastic/Embossed carrier tape

Not drawn to scale
4. Reel dimensions

![Schematic view of reel](image)

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

Fixed text
Country of origin
Packing unit (PQ) identification
2nd traceability lot number*
2nd (youngest) date code*
2nd Quantity*
Traceability lot number
Date code
With linear barcode
Quantity
With linear barcode
Type number
NEXPERIA 12NC
With linear barcode

Optional product information*
Re-approval date code*
Origin code
Product Manufacturing Code
MSL at the Peak Body solder temperature with tin/lead*
MSL at the higher lead-free Peak Body Temperature*
2D matrix with all data (including the data identifiers)
Additional info if halogen free product
Additional info on RoHS
Lead-free symbol

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>
<tbody>
<tr>
<td>SOD323_135 v.2</td>
<td>20200428</td>
<td>-</td>
<td>SOD323_135 v.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The format of this packing information document has been redesigned to comply with the identity guidelines of Nexperia.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Table 1: Outer box dimensions updated</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Table 2: Tolerances added to carrier tape dimensions.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Section 4 &quot;Reel dimensions&quot; added.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Section 5 &quot;Barcode label&quot; added.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Legal texts have been adapted to the new company name where appropriate.</td>
<td></td>
</tr>
<tr>
<td>SOD323_135 v.1</td>
<td>20121004</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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