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>SOT457</td>
<td>115</td>
<td>115 or X</td>
<td>180 x 8</td>
<td>3000</td>
<td>1</td>
<td>185 x 185 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

Pin 1 is in quadrant Q2/T3

Fig. 2. Product orientation in carrier tape

3. Carrier tape dimensions

![Diagram of carrier tape dimensions]

Not drawn to scale

Fig. 3. Plastic/Embossed carrier tape

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>3.18 ± 0.05</td>
<td>3.00 ± 0.05</td>
<td>1.35 ± 0.10</td>
<td>0.23 ± 0.02</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]

Table 3. Reel dimensions

<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>180</td>
<td>14.4</td>
<td>1.5</td>
<td>12.8</td>
<td>20.2</td>
</tr>
</tbody>
</table>

In accordance with IEC 60286-3

Fig. 4. Schematic view of reel
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

NEXPERIA
Country of Origin: >COUNTRY<
[PRODUCT INFO]
(33T) PUID: B.0987654321
(30T) LOT2
(30D) DATE2
(30Q) QTY2
(1T) LOT
(9D) DATE
(Q) QTY
(30P) TYPE
(1P) CODENO
HALOGEN FREE
RoHS compliant

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>SOT457_115 v.2[1]</td>
<td>20200428</td>
<td>The format of this packing information document has been redesigned to comply with the identity guidelines of Nexperia. &lt;br&gt; &lt;br&gt; <strong>Table 2</strong>: Tolerances added to carrier tape dimensions. &lt;br&gt; **Section 4”Reel dimensions” added. &lt;br&gt; **Section 5”Barcode label” added. &lt;br&gt; **Section 6”Added footnote about product orientation. &lt;br&gt; **Legal texts have been adapted to the new company name where appropriate.</td>
<td>SOT457_115 v.1</td>
</tr>
<tr>
<td>SOT457_115 v.1</td>
<td>20121127</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

[1] This document is showing the actual product orientation in production.
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