Mechanical Data

- Surface Mount Package
- Weight: 0.0039 grams (Approximate)
- Case Material – Molded Plastic, UL Flammability Rating 94V-0
- Terminals: Finish – Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208

Package View

Package Outline Dimensions

Suggested Pad Layout

<table>
<thead>
<tr>
<th>Dim</th>
<th>Min</th>
<th>Max</th>
<th>Typ</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.60</td>
<td>0.75</td>
<td>-</td>
</tr>
<tr>
<td>b</td>
<td>0.25</td>
<td>0.35</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>0.05</td>
<td>0.26</td>
<td>-</td>
</tr>
<tr>
<td>D</td>
<td>1.15</td>
<td>1.35</td>
<td>1.25</td>
</tr>
<tr>
<td>E</td>
<td>1.60</td>
<td>1.80</td>
<td>1.70</td>
</tr>
<tr>
<td>He</td>
<td>2.30</td>
<td>2.70</td>
<td>2.50</td>
</tr>
<tr>
<td>L1</td>
<td>0.30</td>
<td>0.50</td>
<td>0.40</td>
</tr>
<tr>
<td>L2</td>
<td>0.41</td>
<td>0.61</td>
<td>0.51</td>
</tr>
<tr>
<td>α1</td>
<td>-</td>
<td>-</td>
<td>7°</td>
</tr>
<tr>
<td>α2</td>
<td>-</td>
<td>-</td>
<td>3°</td>
</tr>
<tr>
<td>β1</td>
<td>-</td>
<td>-</td>
<td>7°</td>
</tr>
<tr>
<td>β2</td>
<td>-</td>
<td>-</td>
<td>3°</td>
</tr>
</tbody>
</table>

All Dimensions in mm

Note: For high voltage applications, the appropriate industry sector guidelines should be considered with regards to creepage and clearance distances between device Terminals and PCB tracking.
## Minimum Packing Quantity

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Tape Width</th>
<th>Part Number Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot; Reel</td>
<td>3,000</td>
<td>8mm -7</td>
</tr>
</tbody>
</table>

**Note:** Package quantities given are for minimum packaging quantity only, not minimum order quantity. For minimum order quantity, please contact Sales Department.

**Note:** No mixed date codes or partial quantity (less than minimum packaging quantity) per packaging is allowed.

**Note:** In no case shall there be two or more consecutive components missing from any reel for any reason.

## Device Tape Orientation

<table>
<thead>
<tr>
<th>Tape Width</th>
<th>Part Number Suffix</th>
<th>Tape Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>8mm</td>
<td>-7</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** For part marking, refer to product datasheet.

**Note:** Tape and package drawings are not to scale and are shown for device tape orientation only.

## Embossed Carrier Tape Specifications

<table>
<thead>
<tr>
<th>Tape Width (W)</th>
<th>Dimension</th>
<th>Value (mm)</th>
<th>Dimension</th>
<th>Value (mm)</th>
<th>Dimension</th>
<th>Value (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8mm</td>
<td>B1</td>
<td>4.5 max.</td>
<td>F</td>
<td>3.5±0.05</td>
<td>P2</td>
<td>2.0±0.05</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>1.5±0.10 -0.0</td>
<td>K</td>
<td>2.4 max.</td>
<td>t</td>
<td>0.40 max.</td>
</tr>
<tr>
<td></td>
<td>D1</td>
<td>0.35 min.</td>
<td>P</td>
<td>4.0±0.10</td>
<td>W</td>
<td>8±0.30</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>1.75±0.10</td>
<td>P0</td>
<td>4.0±0.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Determined by component size. The clearance between the component and the cavity must comply to the rotational and lateral movement requirement provided in figures in the "Maximum Component Movement in Tape Pocket" section.
Embossed Carrier Tape Specifications (Continued)

Top cover tape thickness 0.10mm max.

R min. = 25mm
Bending radius of tape

100mm
1mm Max.

250mm
1mm Max.

Camber (Top View)
Allowable camber to be 1mm/100mm tape, non-cumulative
Maximum Component Movement in Tape Pocket

Component Lateral Movement
8mm Tape

0.5mm maximum

Maximum Component Rotation
Top View

20°
Typical Pocket Centerline

Maximum Component Rotation
Side View

20°
Typical Component Centerline
**Surface Mount Reel Specifications**

- **Tape Width**: 8mm
  - **Reel Size**: 7"
    - **A (mm)**: 178 ±2
    - **B Max (mm)**: 2.0 +0.5 -0
    - **C (mm)**: 13 +0.5 -0.2
    - **D Max (mm)**: 20.5 ±0.2
    - **N Min (mm)**: 55 ±5
    - **G (mm)**: 8.4 +1.5 -0.0
    - **T Max (mm)**: 14.4

  - **Reel Size**: 13"
    - **A (mm)**: 330 ±2
    - **B Max (mm)**: 2.0 +0.5 -0
    - **C (mm)**: 13 +0.5 -0.2
    - **D Max (mm)**: 20.5 ±0.2
    - **N Min (mm)**: 100 ±2
    - **G (mm)**: 8.4 +1.5 -0.0
    - **T Max (mm)**: 14.4

**Tape Leader and Trailer Specifications**

- **Note**: There shall be a leader of at least 230mm which may consist of carrier tape and/or cover tape or a start tape followed by at least 160mm of empty carrier tape sealed with cover tape.

- **Note**: There shall be a trailer of at least 160mm of empty carrier tape sealed with cover tape. The entire carrier tape must release from the reel hub as the last portion of the tape unwinds from the reel without damage to the carrier tape and the remaining components in the cavities.