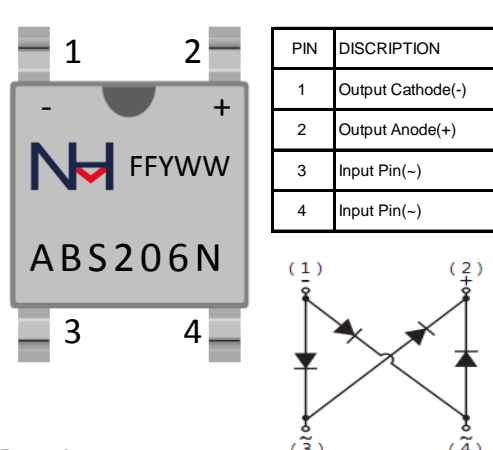


**ABS206N**  
BRIDGE RECTIFIERS



|   |                           |   |  |
|---|---------------------------|---|--|
| <b>VOLTAGE:</b> 1000 Volts  | <b>CURRENT:</b> 2.0 Amper | <b>ABS</b>  | <b>Marking &amp; Schematic diagram</b> |
| <b>FEATURES</b>   |                           |  <p><b>Remark:</b></p> <ul style="list-style-type: none"> <li>①. NH=niuhang trademark</li> <li>②. FF=Product line code,According to actual changes<br/>YWW=Data code,According to actual changes</li> <li>③. ABS206N=Modle</li> <li>④. "- +"=Polarity mark</li> </ul> |  |
| <ul style="list-style-type: none"> <li>■ Glass passivated die construction</li> <li>■ low forward voltage drop</li> <li>■ High surge current capability</li> <li>■ Plastic material-UL flammability 94V-0</li> </ul>  |                           |   |  |
| <b>MECHANICAL DATA</b>  |                           |   |  |
| <ul style="list-style-type: none"> <li>■ <b>Case:</b> ABS</li> <li>■ <b>Terminals:</b> Plated Leads Solderable per MIL-STD-202, Method 208</li> <li>■ <b>Polarity:</b> As Marked on Case</li> <li>■ <b>Mounting Position:</b> Any</li> <li>■ <b>Lead Free:</b> For RoHS / Lead Free Version</li> <li>■ <b>Weight:</b>App. 0.1 grams (0.0035 ounce)</li> </ul> |                           |   |  |
| <b>TYPICAL APPLICATIONS</b>   |                           |   |  |
| <ul style="list-style-type: none"> <li>■ For use in switch power supply ,high frequency inverters ,<br/>PD power supply applications</li> </ul>   |                           |   |  |

Single phase,half wave,60Hz,resistive or inductive load.For capacitive load,derate current by 20%

**Maximum Ratings (Ratings at 25°C ambient temperature unless otherwise specified )**

| Parameter   | Symbol      | ABS206N | Unit               |
|---|-------------|---------|--------------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$   | 1000    | V                  |
| Maximum RMS Voltag  | $V_{RMS}$   | 700     | V                  |
| Maximum DC Blocking Voltage   | $V_{DC}$    | 1000    | V                  |
| Maximum Average Forward Rectified Current @ TC=100°C (see fig.1)                                | $I_{F(AV)}$ | 2       | A                  |
| Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rate Load (JEDEC Method) | $I_{FSM}$   | 55      | A                  |
| Current Squared Time Per Diode(t<8.3ms)   | $I^2t$      | 12.55   | A <sup>2</sup> sec |

**Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified )**

| Parameter  | Test Conditions |            | Symbol    | ABS206N |      |      | Unit |
|--|-----------------|------------|-----------|---------|------|------|------|
|  |                 |            |           | Min.    | Typ. | Max. |      |
| Maximum Forward Voltage Per Diode (Note 1)                       | Ta=25°C         | IF= 2.0 A  | $V_{FM}$  | --      | --   | 1.1  | V    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 1) | Ta=25°C         | VR= 1000 V | $I_{RRM}$ | --      | --   | 5    | uA   |
|  | Ta=125°C        | VR= 1000 V |           | --      | --   | 300  |      |
| Typical Junction Capacitance Per Diode                           | 4V,1MHz         |            | $C_J$     | --      | 35   | --   | pF   |

**Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified )**

| Parameter                            | Symbol          | ABS206N |        | Unit |
|--------------------------------------|-----------------|---------|--------|------|
| Operating Junction Temperature Range | $T_J$           | -55     | to 150 | °C   |
| Storage Temperature Range            | $T_{STD}$       | -55     | to 150 |      |
| Typical thermal resistance (Note 2)  | $R_{\theta JA}$ | 62.5    |        | °C/W |
|                                      | $R_{\theta JL}$ | 25.0    |        |      |

- Notes:
1. Pulse test: 300 μs pulse width,1% duty cycle
  2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

**ABS206N**  
BRIDGE RECTIFIERS



**RATING AND CHARACTERISTIC CURVES**

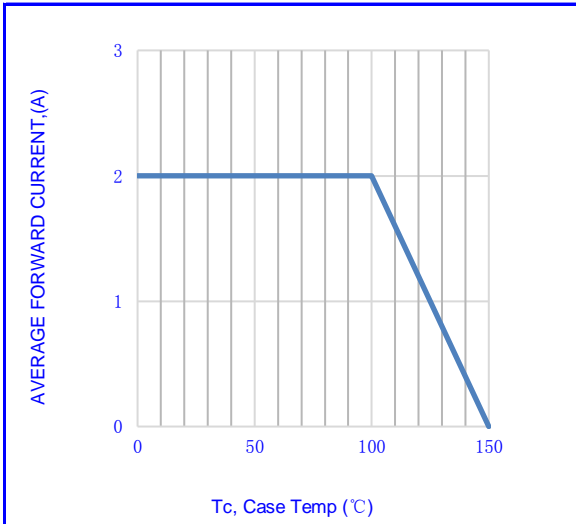


Fig.1-FORWARD CURRENT DERATING CURVE

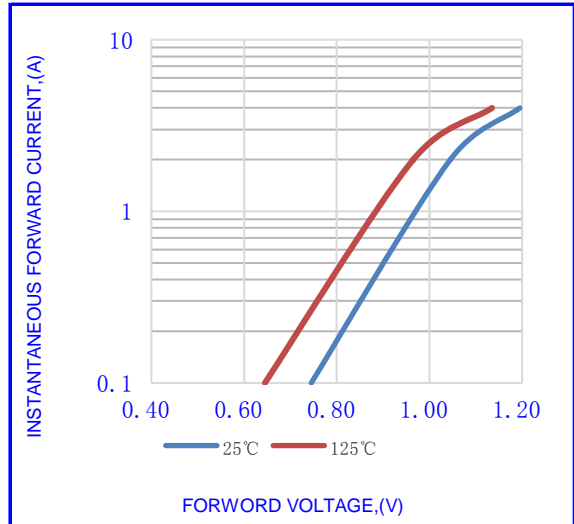


Fig.2- TYPICAL INSTANTANEOUS FORWARD

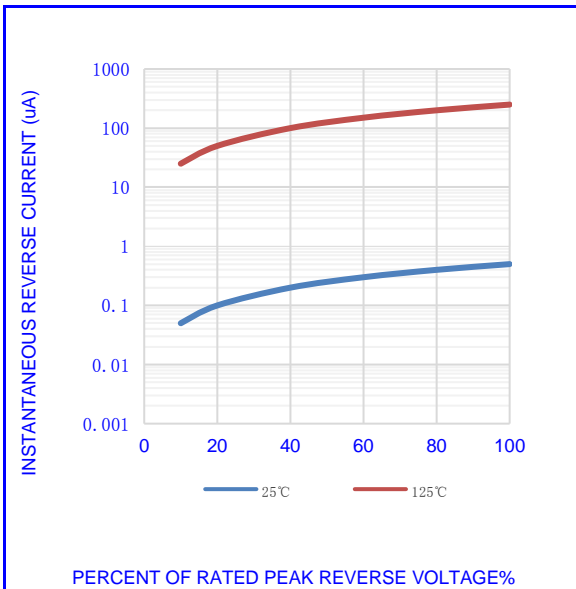


Fig.3- TYPICAL REVERSE CHARACTERISTICS

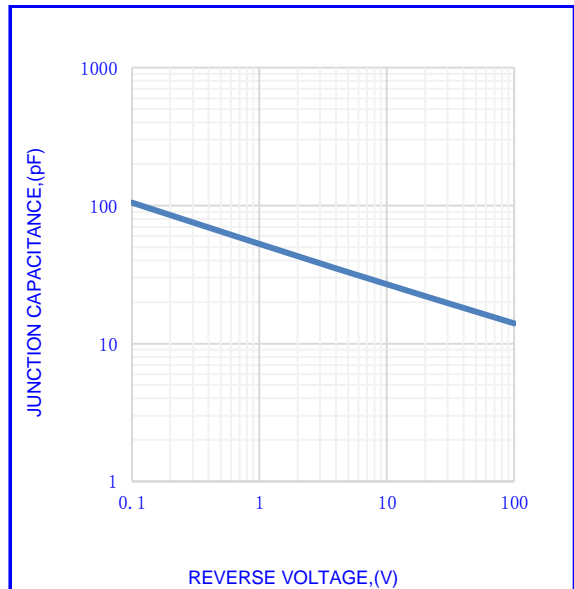


Fig.4- TYPICAL JUNCTION CAPACITANCE

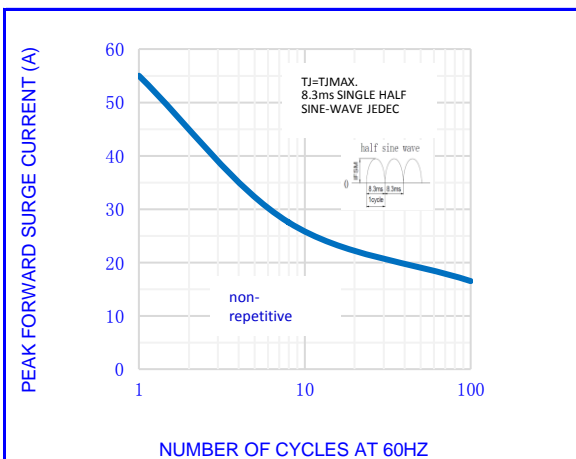


Fig.5-MAX. NON-REPETITIVE SURGE CURRENT

**ABS206N**  
BRIDGE RECTIFIERS



| OUTLINE DRAWINGS                   |                |                     |                          | ABS  |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
|------------------------------------|----------------|---------------------|--------------------------|--|-----------------------------|-----------------------|------|-------------|--|--|--------|--|--|------|------|------|------|------|------|---|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|-------|---|-------|---|-------|-------|---|-------|---|-------|---|-------|-------|---|-------|---|---|---|-------|---|---|-------|---|-------|---|-------|-------|---|-------|---|-------|---|-------|-------|---|-------|---|-------|---|
|                                    |                |                     |                          | <b>OUTLINE DIMENSIONS</b>  |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
|                                    |                |                     |                          | <table border="1"> <thead> <tr> <th rowspan="2">Dim.</th> <th colspan="3">Millimeters</th> <th colspan="3">Inches</th> </tr> <tr> <th>Min.</th> <th>Typ.</th> <th>Max.</th> <th>Min.</th> <th>Typ.</th> <th>Max.</th> </tr> </thead> <tbody> <tr><td>A</td><td>4.300</td><td>-</td><td>4.500</td><td>0.169</td><td>-</td><td>0.177</td></tr> <tr><td>B</td><td>6.000</td><td>-</td><td>6.500</td><td>0.236</td><td>-</td><td>0.252</td></tr> <tr><td>C</td><td>3.800</td><td>-</td><td>4.400</td><td>0.150</td><td>-</td><td>0.173</td></tr> <tr><td>D</td><td>4.900</td><td>-</td><td>5.400</td><td>0.193</td><td>-</td><td>0.213</td></tr> <tr><td>E</td><td>0.550</td><td>-</td><td>0.850</td><td>0.022</td><td>-</td><td>0.033</td></tr> <tr><td>F</td><td>1.220</td><td>-</td><td>1.450</td><td>0.048</td><td>-</td><td>0.056</td></tr> <tr><td>G</td><td>-</td><td>-</td><td>1.500</td><td>-</td><td>-</td><td>0.059</td></tr> <tr><td>H</td><td>0.300</td><td>-</td><td>0.800</td><td>0.012</td><td>-</td><td>0.031</td></tr> <tr><td>J</td><td>0.150</td><td>-</td><td>0.250</td><td>0.006</td><td>-</td><td>0.010</td></tr> <tr><td>K</td><td>0.030</td><td>-</td><td>0.150</td><td>0.001</td><td>-</td><td>0.006</td></tr> </tbody> </table> |                             |                       | Dim. | Millimeters |  |  | Inches |  |  | Min. | Typ. | Max. | Min. | Typ. | Max. | A | 4.300 | -     | 4.500 | 0.169 | -     | 0.177 | B | 6.000 | -     | 6.500 | 0.236 | -     | 0.252 | C | 3.800 | -     | 4.400 | 0.150 | -     | 0.173 | D | 4.900 | -     | 5.400 | 0.193 | -     | 0.213 | E | 0.550 | - | 0.850 | 0.022 | - | 0.033 | F | 1.220 | - | 1.450 | 0.048 | - | 0.056 | G | - | - | 1.500 | - | - | 0.059 | H | 0.300 | - | 0.800 | 0.012 | - | 0.031 | J | 0.150 | - | 0.250 | 0.006 | - | 0.010 | K | 0.030 | - |
| Dim.                               | Millimeters    |                     |                          | Inches   |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
|                                    | Min.           | Typ.                | Max.                     | Min.   | Typ.                        | Max.                  |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| A                                  | 4.300          | -                   | 4.500                    | 0.169  | -                           | 0.177                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| B                                  | 6.000          | -                   | 6.500                    | 0.236  | -                           | 0.252                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| C                                  | 3.800          | -                   | 4.400                    | 0.150  | -                           | 0.173                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| D                                  | 4.900          | -                   | 5.400                    | 0.193  | -                           | 0.213                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| E                                  | 0.550          | -                   | 0.850                    | 0.022  | -                           | 0.033                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| F                                  | 1.220          | -                   | 1.450                    | 0.048  | -                           | 0.056                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| G                                  | -              | -                   | 1.500                    | -  | -                           | 0.059                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| H                                  | 0.300          | -                   | 0.800                    | 0.012  | -                           | 0.031                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| J                                  | 0.150          | -                   | 0.250                    | 0.006  | -                           | 0.010                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| K                                  | 0.030          | -                   | 0.150                    | 0.001  | -                           | 0.006                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| <b>RECOMMENDED LAYOUT DRAWINGS</b> |                |                     |                          | <b>ABS</b>   |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
|                                    |                |                     |                          | <b>RECOMMENDED LAYOUT DIMENSIONS</b>   |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
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| Dim.                               | Millimeters    |                     |                          | Inches   |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
|                                    | Min.           | Typ.                | Max.                     | Min.   | Typ.                        | Max.                  |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| A                                  | -              | 6.200               | -                        | -  | 0.244                       | -                     |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| B                                  | -              | 4.000               | -                        | -  | 0.157                       | -                     |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| C                                  | -              | 2.000               | -                        | -  | 0.079                       | -                     |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| D                                  | -              | 1.000               | -                        | -  | 0.039                       | -                     |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| <b>PACKING INFORMATION</b>         |                |                     |                          | <b>ABS</b>   |                             |                       |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| Package Method                     | Reel Size (mm) | Quantity (pcs/reel) | Inner Box Size LxWxH(mm) | Quantity (pcs/Inner Box)   | Outer Carton Size LxWxH(mm) | Quantity (pcs/carton) |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |
| Tape Reel                          | Φ330           | 5000                | 340x340x40               | 10000  | 360x360x260                 | 60000                 |      |             |  |  |        |  |  |      |      |      |      |      |      |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |       |       |       |       |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |   |   |       |   |   |       |   |       |   |       |       |   |       |   |       |   |       |       |   |       |   |       |   |

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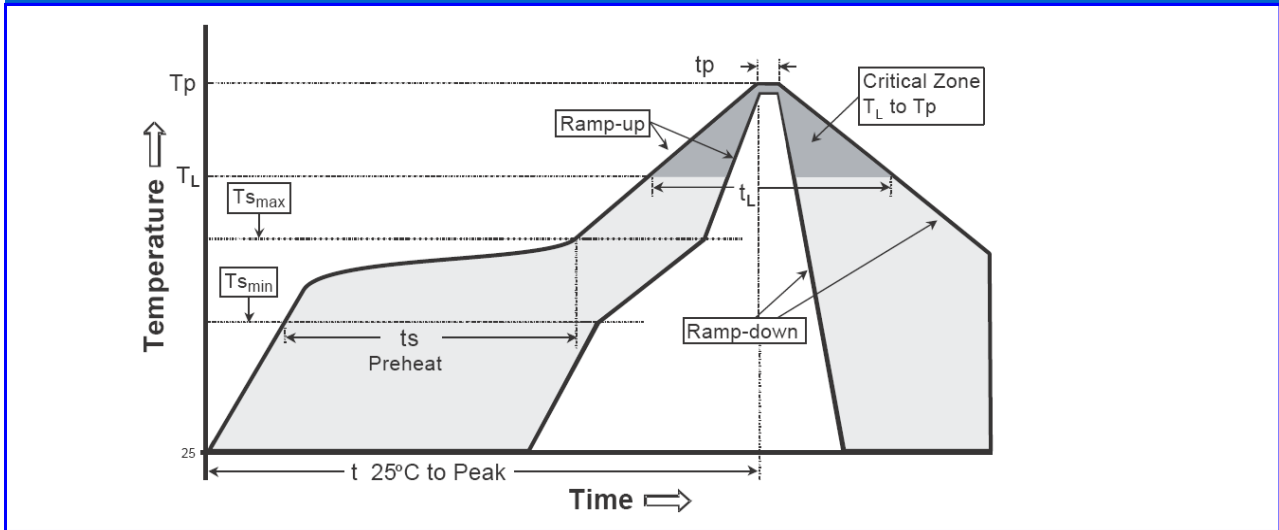
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**Recommended wave soldering condition**

| Product         | Peak Temperature | Soldering Time  |
|-----------------|------------------|-----------------|
| Pb-free devices | 260 +0/-5 °C     | 5 +1/-1 seconds |

**Recommended temperature profile for IR reflow**



| Profile feature  | Sn-Pb eutectic Assembly          | Pb-free Assembly                 |
|--|----------------------------------|----------------------------------|
| Average ramp-up rate (T <sub>smax</sub> to T <sub>p</sub> )                                | 3°C/second max.                  | 3°C/second max.                  |
| Preheat<br>-Temperature Min(TS min)<br>-Temperature Max(TS max)<br>-Time(ts min to ts max) | 100°C<br>150°C<br>60-120 seconds | 150°C<br>200°C<br>60-180 seconds |
| Time maintained above:<br>-Temperature (T <sub>L</sub> )<br>- Time (t <sub>L</sub> )       | 183°C<br>60-150 seconds          | 217°C<br>60-150 seconds          |
| Peak Temperature(T <sub>p</sub> )  | 240 +0/-5 °C                     | 260 +0/-5 °C                     |
| Time within 5°C of actual peak temperature(tp)   | 10-30 seconds                    | 20-40 seconds                    |
| Ramp down rate   | 6°C/second max.                  | 6°C/second max.                  |
| Time 25 °C to peak temperature   | 6 minutes max.                   | 8 minutes max.                   |

Note : All temperatures refer to topside of the package, measured on the package body surface.

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