



**Electrical Characteristics**

| Part Number | DC Spark-over Voltage | Maximum Impulse Spark-over Voltage | Minimum Insulation Resistance |               | Maximum Capacitance | Nominal Impulse Discharge Current | Impulse Withstanding Voltage Capacity  |
|-------------|-----------------------|------------------------------------|-------------------------------|---------------|---------------------|-----------------------------------|--|
|             | 100V/s                | 1000V/ $\mu$ s                     | Test Voltage                  | (M $\Omega$ ) | (1MHz)              | 8/20 $\mu$ s                      |  |
|             | (V)                   | (V)                                | DC(V)                         |               | (pF)                | (A)                               |  |
| B32-150-LF  | 150 $\pm$ 30%         | 750                                | 50                            | 1000          | 0.5                 | 500                               | 10/700 $\mu$ s<br>4kV<br>$\pm$ 5 Times |
| B32-230-LF  | 230 $\pm$ 30%         | 950                                | 100                           | 1000          | 0.5                 | 500                               |  |
| B32-300-LF  | 300 $\pm$ 30%         | 950                                | 100                           | 1000          | 0.5                 | 500                               |  |
| B32-350-LF  | 350 $\pm$ 30%         | 950                                | 100                           | 1000          | 0.5                 | 500                               |  |
| B32-400-LF  | 400 $\pm$ 30%         | 1050                               | 100                           | 1000          | 0.5                 | 500                               |  |
| B32-420-LF  | 420 $\pm$ 30%         | 1050                               | 100                           | 1000          | 0.5                 | 500                               |  |
| B32-470-LF  | 470 $\pm$ 30%         | 1050                               | 100                           | 1000          | 0.5                 | 500                               |  |

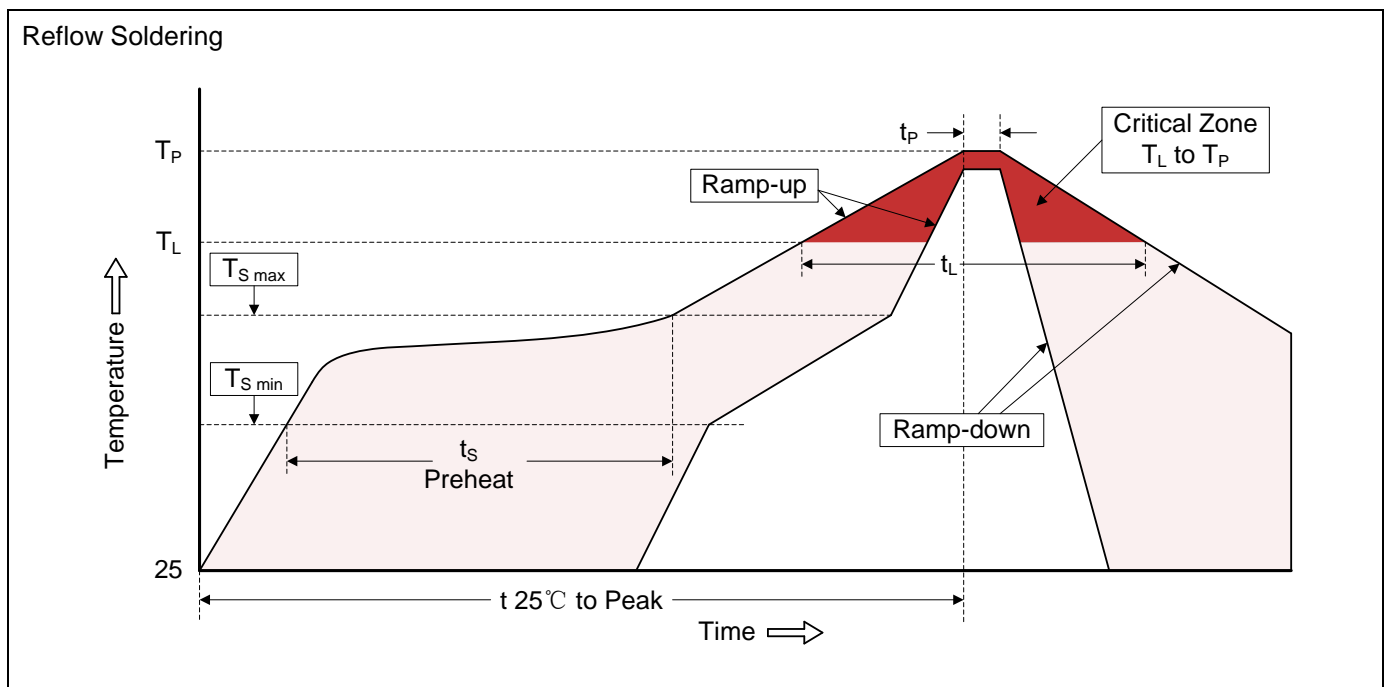
**Electrical Ratings**

| Items                              | Test Condition/Description   | Requirement                 |
|------------------------------------|--|-----------------------------|
| DC Spark-over Voltage              | The voltage is measured with voltage ramp $dv/dt=100V/s$ .   | To meet the specified value |
| Maximum Impulse Spark-over Voltage | The maximum impulse spark-over voltage is measured with voltage ramp $dv/dt=1000V/\mu s$ .   |                             |
| Insulation Resistance              | The resistance of gas tube shall be measured between two electrodes.   |                             |
| Capacitance                        | The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz   |                             |
| Impulse Discharge Current          | Maximum 8/20 $\mu$ s surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC spark-over voltage to change more than 30% from its initial value. |                             |
| Impulse Withstanding Voltage       | The maximum 10/700 $\mu$ s surge that can be applied to the Gas Tube, 5 positive and 5 negative surges, with 1 minute interval time, without causing the DC spark-over voltage to change more than 25% from its initial value.           |                             |

**Reliability**

| Items               | Test conditions / Methods  | Standard                              |
|---------------------|--|---------------------------------------|
| Cold Resistance     | Measurement after $-40^{\circ}\text{C}/1000$ HRS & normal temperature/2 HRS.   | Features are conformed to rated spec. |
| Heat Resistance     | Measurement after $125^{\circ}\text{C}/1000$ HRS & normal temperature/2 HRS.   |                                       |
| Humidity Resistance | Measurement after humidity $90\sim 95^{\circ}\text{C} (45^{\circ}\text{C})$ /1000 HRS & normal temperature/2 HRS.  |                                       |
| Temperature Cycle   | 10 times repetition of cycle $-40^{\circ}\text{C}/30\text{min}$ $\rightarrow$ normal, temp/2 min $\rightarrow 125^{\circ}\text{C}/30\text{min}$ , measurement after normal temp/2 HRS. |                                       |
| Solder Ability      | Check for solder adhesion after $260 \pm 5^{\circ}\text{C}$ for 3sec , The body immersion depth 1.5mm in molten solder   | Evenly covered by solder.             |
| Solder Heat         | Measurement after $260 \pm 5^{\circ}\text{C}$ solder for 10sec, The body immersion depth 1.5mm in molten solder  | Conformed to rated spec.              |

**Recommended Soldering Conditions**

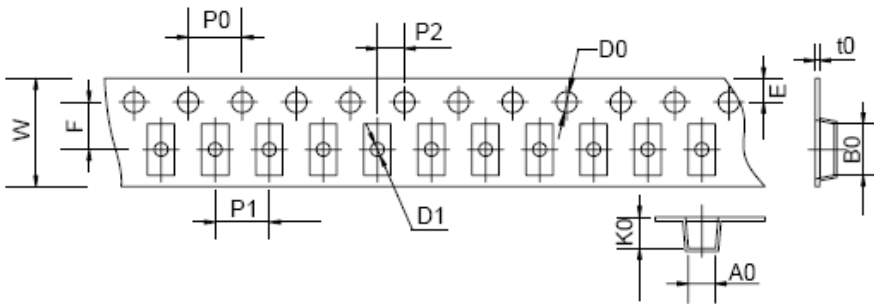


Recommended Conditions

| Profile Feature  | Pb-Free Assembly                 |
|--|----------------------------------|
| Average ramp-up rate ( $T_L$ to $T_P$ )  | 3°C/second max.                  |
| Preheat<br>-Temperature Min ( $T_{S\ min}$ )<br>-Temperature Max ( $T_{S\ max}$ )<br>-Time (min to max) (ts) | 150°C<br>200°C<br>60-180 seconds |
| $T_{S\ max}$ to $T_L$<br>-Ramp-up Rate   | 3°C/second max.                  |
| Time maintained above:<br>-Temperature ( $T_L$ )<br>-Time ( $t_L$ )  | 217°C<br>60-150 seconds          |
| Peak Temperature ( $T_P$ )   | 260°C                            |
| Time within 5°C of actual Peak Temperature ( $t_p$ )   | 20-40 seconds                    |
| Ramp-down Rate   | 6°C/second max.                  |
| Time 25°C to Peak Temperature  | 8 minutes max.                   |

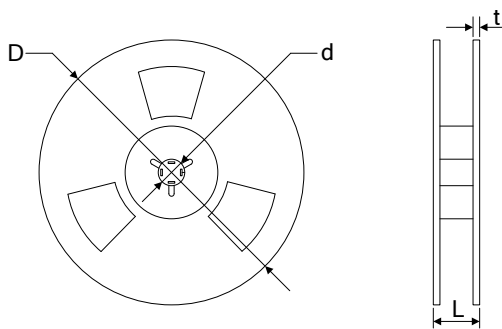
Packaging

Tape



| Items | Dimension (mm) |           |
|-------|----------------|-----------|
|       | Spec.          | Tolerance |
| W     | 8.00           | ±0.20     |
| P0    | 4.00           | ±0.10     |
| P1    | 4.00           | ±0.10     |
| P2    | 2.00           | ±0.10     |
| D0    | 1.55           | ±0.05     |
| D1    | 1.00           | ±0.05     |
| E     | 1.75           | ±0.10     |
| F     | 3.50           | ±0.10     |
| A0    | 2.00           | ±0.10     |
| K0    | 2.00           | ±0.10     |
| B0    | 3.80           | ±0.10     |
| t0    | 0.30           | ±0.10     |

Reel



|   |        |       |
|---|--------|-------|
| D | 170.00 | ±2.00 |
| d | 13.00  | ±0.50 |
| L | 12.00  | ±2.00 |
| t | 1.20   | ±0.20 |

Quantity: 2500pcs

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