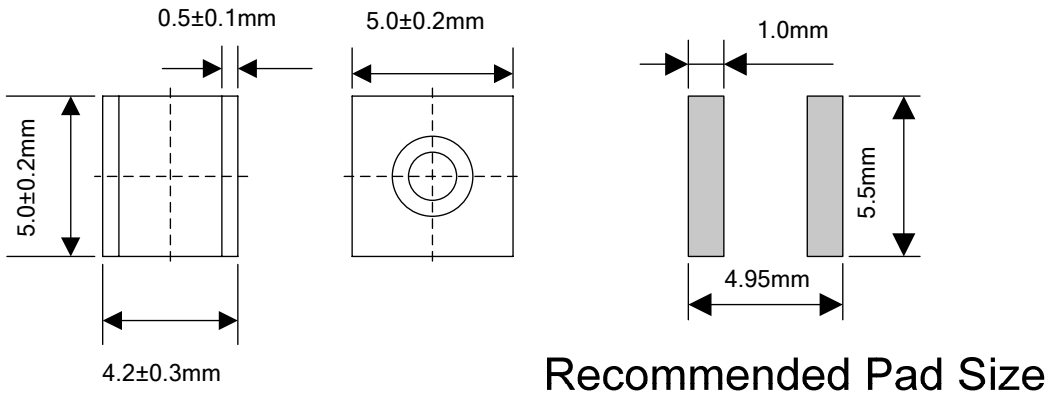
## »Features

- High insulation resistance
- 6KV 10/700μs maximum surge rating in accordance with ITU-TK.21
- Ultra low capacitance (<1.0pF)
- Surface mounted gas arrester
- Size :5.0mm*5.0mm*4.2mm
- 3.0KA surge capability tested with 8/20μs pulse as defined by IEC 61000-4-5
- Meets MSL level 1
- Storage and operating temperature: -40 ~ +85℃

## »Applications

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

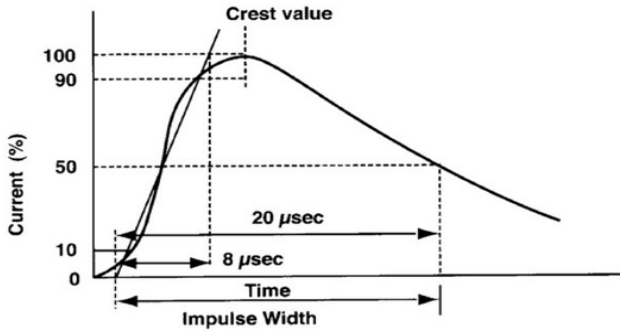
## »Device Dimensions (Unit: mm)



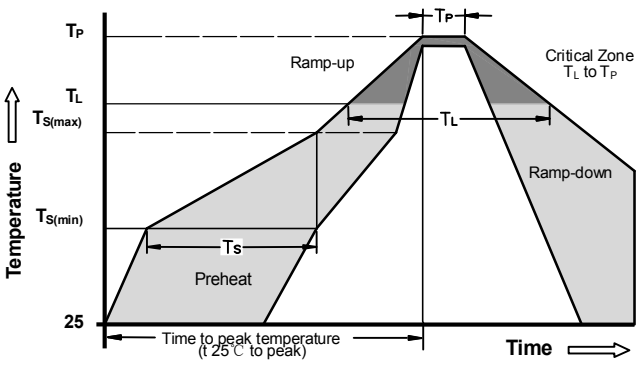
## »Electrical Characteristics

| Part Number | DC Spark-over Voltage | Maximum Impulse Spark-over Voltage | Minimum Insulatio Resistance | Maximum Capacitance | Impulse withstanding Voltage Capacity | Nominal Impulse Discharge Current |
|---|---|---|---|---|---|---|
| | @100V/S | @1KV/μs | | @1MHz | @10/700μs ±5 times | @8/20μs ±5 times |
| BWF152M | 1500V± 20% | 2500V | 1 GΩ (at 25V DC) | 1.0pF | 6KV | 3.0KA |

## »Electrical Rating

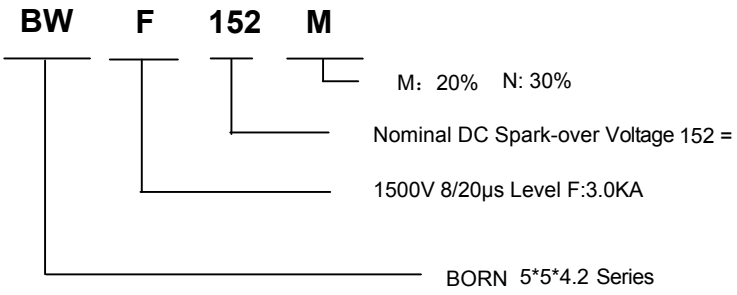
| Item | Test Condition / Description | Requirement |
|---|---|---|
| **DC Spark-over Voltage** | The voltage is measured with a slowly rate of rise dv / dt=100V/s | To meet the specified value |
| **Impulse Spark-over Voltage** | The maximum impulse spark-over voltage is measured with a rise time of dv / dt=100V//μs or 1KV/μs | |
| **Insulation Resistance** | The resistance of gas tube shall be measured each terminal each other terminal, please see above spec. | |
| **Capacitance** | The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency:1MHz | |
| **Nominal Impulse Discharge Current** | The maximum current applying a waveform of 8/20μs that can be applied across the terminals of the gas tube. One hour after the test is completed, re-testing of the DC spark-over voltage does not exceed ±40% of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes.   | |

## »Recommended solderingprofile




| Reflow Condition | | Pb - Free assembly |
|---|---|---|
| Pre Heat | -Temperature Min($T_{s(min)}$) | 150°C |
| | -Temperature Max($T_{s(max)}$) | 200°C |
| | - Time (min to max) ($t_s$) | 60 -180 Seconds |
| Average ramp up rate ( Liquidus Temp $T_L$) to peak | | 3°C/second max |
| $T_{S(max)}$ to TL - Ramp-upRate | | 5°C/second max |
| Reflow | - Temperature ($T_L$)(Liquidus) | 217°C |
| | - Time (min to max) ($t_s$) | 60 -150 Seconds |
| Peak Temperature ($T_P$) | | 260 +0/-5°C |
| Time within 5°C of actual peak Temperature ($t_p$) | | 10 - 30 Seconds |
| Ramp-down Rate | | 6°C/second max |
| Time 25°C to peak Temperature ($T_P$) | | 8 minutes Max |
| Do not exceed | | 260°C |

## »Part Numbering

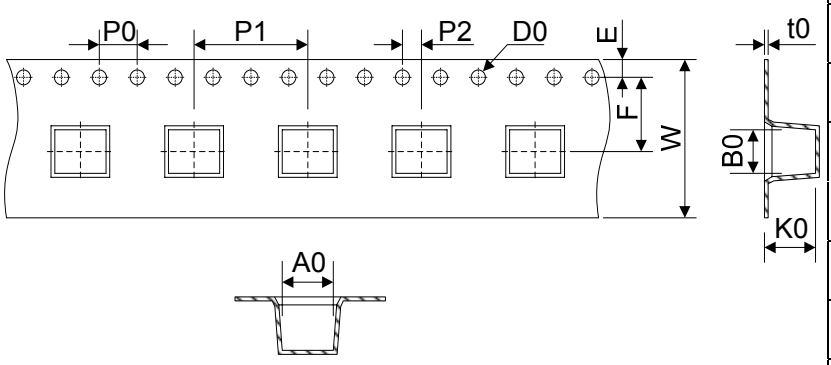



## »Cautions and warnings

- Gas discharge tubes (GDT) must not be operated directly in power supply networks.
- Gas discharge tubes (GDT) may become hot in case of longer periods of current stress (danger ofburning).
- Gas discharge tubes (GDT) may be used only within their specified values. In the event of overload, the head contacts may fail or the component may be destroyed.
- Damaged Gas discharge tubes (GDT) must not be re-used.

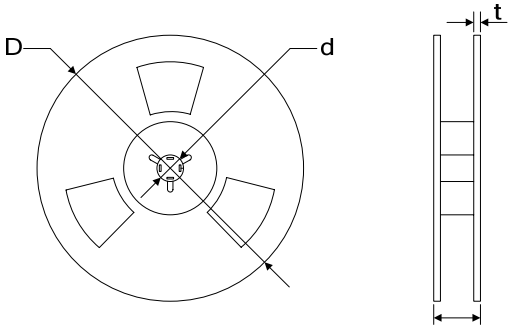
## »Packaging

Tape




| Items | Dimension\|(mm) | |
|---|---|---|
| | Spec. | Tolerance |
| W | 16.00 | ±0.20 |
| P0 | 4.00 | ±0.10 |
| P1 | 12.00 | ±0.20 |
| P2 | 2.00 | ±0.10 |
| D0 | 1.50 | ±0.10 |
| E | 1.75 | ±0.10 |
| F | 7.50 | ±0.10 |
| A0 | 5.30 | ±0.10 |
| K0 | 5.40 | ±0.10 |
| B0 | 4.50 | ±0.10 |
| t0 | 0.40 | ±0.10 |

Reel




| | | |
|---|---|---|
| D | 330.00 | ±1.00 |
| d | 13.00 | ±0.50 |
| L | 20.00 | ±0.50 |
| t | 2.00 | ±0.20 |

Quantity: 1000pcs