

## ➤ Features

- Size 0.18\*0.12 inch /4.5\*3.2 mm
- RoHS compliant, lead-free and halogen-free
- Fast response to fault current
- Low resistance
- Low profile
- Compatible with high temperature solders

## ➤ Applications

- Computer, Mobile phones, Multimedia
- Automotive, Industrial controls, Telephony and broadband
- Game machines, Portable electronics, Battery

## ➤ Electrical Characteristics (25°C)

| Part Number        | I <sub>hold</sub> | I <sub>trip</sub> | V <sub>max</sub>   | I <sub>max</sub> | P <sub>d typ</sub> | Time to trip |       | R <sub>min</sub> | R <sub>1max</sub> |
|--------------------|-------------------|-------------------|--------------------|------------------|--------------------|--------------|-------|------------------|-------------------|
|                    | (A)               | (A)               | (V <sub>dc</sub> ) | (A)              | (W)                | (A)          | (Sec) | (Ω)              | (Ω)               |
| BSMD1812-010-30V   | 0.10              | 0.30              | 30                 | 40               | 0.8                | 0.50         | 1.50  | 0.750            | 15.00             |
| BSMD1812-010-60V   | 0.10              | 0.30              | 60                 | 40               | 0.8                | 0.50         | 1.50  | 0.750            | 15.00             |
| BSMD1812-014-60V   | 0.14              | 0.34              | 60                 | 40               | 0.8                | 1.50         | 0.15  | 0.650            | 6.000             |
| BSMD1812-020-30V   | 0.20              | 0.40              | 30                 | 40               | 0.8                | 8.00         | 0.04  | 0.350            | 5.000             |
| BSMD1812-020-60V   | 0.20              | 0.40              | 60                 | 40               | 0.8                | 8.00         | 0.04  | 0.350            | 5.000             |
| BSMD1812-030-30V   | 0.30              | 0.60              | 30                 | 40               | 0.8                | 8.00         | 0.10  | 0.250            | 3.000             |
| BSMD1812-030-60V   | 0.30              | 0.60              | 60                 | 40               | 0.8                | 8.00         | 0.10  | 0.250            | 3.000             |
| BSMD1812-050-15V   | 0.50              | 1.00              | 15                 | 40               | 0.8                | 8.00         | 0.15  | 0.150            | 1.400             |
| BSMD1812-050-24V   | 0.50              | 1.00              | 24                 | 40               | 0.8                | 8.00         | 0.15  | 0.150            | 1.400             |
| BSMD1812-050-30V   | 0.50              | 1.00              | 30                 | 40               | 0.8                | 8.00         | 0.15  | 0.150            | 1.400             |
| BSMD1812-050-60V   | 0.50              | 1.00              | 60                 | 40               | 0.8                | 8.00         | 0.15  | 0.150            | 1.400             |
| BSMD1812-075-13.2V | 0.75              | 1.50              | 13.2               | 40               | 0.8                | 8.00         | 0.20  | 0.090            | 0.450             |
| BSMD1812-075-16V   | 0.75              | 1.50              | 16                 | 40               | 0.8                | 8.00         | 0.20  | 0.090            | 0.450             |
| BSMD1812-075-24V   | 0.75              | 1.50              | 24                 | 40               | 0.8                | 8.00         | 0.20  | 0.090            | 0.450             |
| BSMD1812-075-33V   | 0.75              | 1.50              | 33                 | 40               | 0.8                | 8.00         | 0.20  | 0.090            | 0.450             |
| BSMD1812-110-8V    | 1.10              | 2.20              | 8                  | 100              | 0.8                | 8.00         | 0.30  | 0.045            | 0.250             |
| BSMD1812-110-16V   | 1.10              | 2.20              | 16                 | 100              | 0.8                | 8.00         | 0.30  | 0.045            | 0.250             |
| BSMD1812-110-24V   | 1.10              | 2.20              | 24                 | 40               | 0.8                | 8.00         | 0.30  | 0.045            | 0.250             |
| BSMD1812-110-33V   | 1.10              | 2.20              | 33                 | 40               | 0.8                | 8.00         | 0.30  | 0.045            | 0.250             |
| BSMD1812-125-16V   | 1.25              | 2.50              | 16                 | 100              | 0.8                | 8.00         | 0.40  | 0.050            | 0.160             |
| BSMD1812-125-24V   | 1.25              | 2.50              | 24                 | 40               | 0.8                | 8.00         | 0.40  | 0.050            | 0.160             |
| BSMD1812-150-8V    | 1.50              | 3.00              | 8                  | 100              | 0.8                | 8.00         | 0.50  | 0.040            | 0.160             |

| Part Number        | $I_{hold}$ | $I_{trip}$ | $V_{max}$          | $I_{max}$ | $P_{d\ typ}$ | Time to trip |       | $R_i$ | $R_{1max}$ |
|--------------------|------------|------------|--------------------|-----------|--------------|--------------|-------|-------|------------|
|                    | (A)        | (A)        | (V <sub>dc</sub> ) | (A)       | (W)          | (A)          | (Sec) | (Ω)   | (Ω)        |
| BSMD1812-150-16V   | 1.50       | 3.00       | 16                 | 100       | 0.8          | 8.00         | 0.50  | 0.040 | 0.160      |
| BSMD1812-150-24V   | 1.50       | 3.00       | 24                 | 40        | 0.8          | 8.00         | 0.50  | 0.040 | 0.160      |
| BSMD1812-150-33V   | 1.50       | 3.00       | 33                 | 40        | 0.8          | 8.00         | 0.50  | 0.040 | 0.160      |
| BSMD1812-160-8V    | 1.60       | 3.20       | 8                  | 100       | 0.8          | 8.00         | 1.00  | 0.030 | 0.130      |
| BSMD1812-160-16V   | 1.60       | 3.20       | 16                 | 100       | 0.8          | 8.00         | 1.00  | 0.030 | 0.130      |
| BSMD1812-160-24V   | 1.60       | 3.20       | 24                 | 40        | 0.8          | 8.00         | 1.00  | 0.030 | 0.130      |
| BSMD1812-200-8V    | 2.00       | 4.00       | 8                  | 100       | 0.8          | 8.00         | 2.00  | 0.020 | 0.100      |
| BSMD1812-200-12V   | 2.00       | 4.00       | 12                 | 100       | 0.8          | 8.00         | 2.00  | 0.020 | 0.100      |
| BSMD1812-200-16V   | 2.00       | 4.00       | 16                 | 100       | 0.8          | 8.00         | 2.00  | 0.020 | 0.100      |
| BSMD1812-200-24V   | 2.00       | 4.00       | 24                 | 40        | 0.8          | 8.00         | 2.00  | 0.020 | 0.100      |
| BSMD1812-200-30V   | 2.00       | 4.00       | 30                 | 40        | 0.8          | 8.00         | 2.00  | 0.020 | 0.100      |
| BSMD1812-250-8V    | 2.50       | 5.00       | 8                  | 40        | 0.8          | 8.00         | 2.50  | 0.015 | 0.080      |
| BSMD1812-260-8V    | 2.60       | 5.20       | 8                  | 100       | 0.8          | 8.00         | 2.50  | 0.010 | 0.050      |
| BSMD1812-260-13.2V | 2.60       | 5.20       | 13.2               | 40        | 0.8          | 8.00         | 2.50  | 0.010 | 0.050      |
| BSMD1812-260-16V   | 2.60       | 5.20       | 16                 | 40        | 0.8          | 8.00         | 2.50  | 0.010 | 0.050      |
| BSMD1812-300-8V    | 3.00       | 6.00       | 8                  | 100       | 0.8          | 8.00         | 4.00  | 0.010 | 0.040      |
| BSMD1812-300-12V   | 3.00       | 6.00       | 12                 | 100       | 0.8          | 8.00         | 4.00  | 0.010 | 0.040      |
| BSMD1812-300-16V   | 3.00       | 6.00       | 16                 | 40        | 0.8          | 8.00         | 4.00  | 0.010 | 0.040      |
| BSMD1812-350-6V    | 3.50       | 7.00       | 6                  | 100       | 2.0          | 10.00        | 4.00  | 0.008 | 0.035      |
| BSMD1812-350-16V   | 3.50       | 7.00       | 16                 | 100       | 2.0          | 10.00        | 4.00  | 0.008 | 0.035      |
| BSMD1812-400-6V    | 4.00       | 8.00       | 6                  | 100       | 2.0          | 10.00        | 4.00  | 0.005 | 0.025      |

$I_{hold}$  = Hold current: maximum current device will pass without tripping in 25°C still air.

$I_{trip}$  = Trip current: minimum current at which the device will trip in 25°C still air.

$V_{max}$  = Maximum voltage device can withstand without damage at rated current ( $I_{max}$ ).

$I_{max}$  = Maximum fault current device can withstand without damage at rated voltage ( $V_{max}$ ).

$P_{d\ typ}$  = Typical power dissipated from device when in the tripped state at 25°C still air.

$R_{min}$  = Minimum resistance of device in initial (un-soldered) state.

$R_{1max}$  = Maximum resistance of device at 25°C measured one hour after tripping or reflow soldering of 260°C for 20 sec.

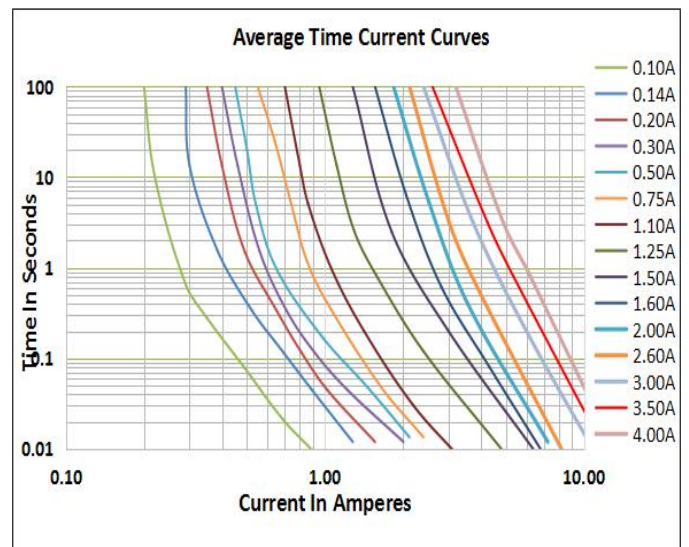
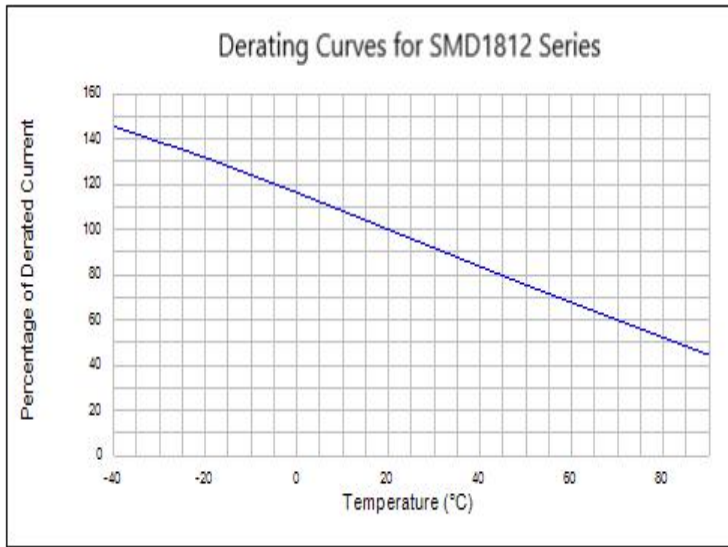
**Caution:** Operation beyond the specified ratings may result in damage and possible arcing and flame.

## ➤ WARNING

- Users shall independently assess the suitability of these devices for each of their applications.
- Operation of these devices beyond the stated maximum ratings could result in damage to the devices and lead to electrical arcing and/or fire.
- These devices are intended to protect against the effects of temporary over-current or over-temperature conditions and are not intended to perform as protective devices where such conditions are expected to be repetitive or prolonged in duration.
- Exposure to silicon-based oils, solvents, electrolytes, acids, and similar materials can adversely affect the prolonged of these PPTC devices.
- These devices undergo thermal expansion under fault conditions, and thus shall be provided with adequate space and be protected against mechanical stresses.
- Circuits with inductance may generate a voltage (L di/dt) above the rated voltage of the PPTC device.

➤ Thermal Derating Curve

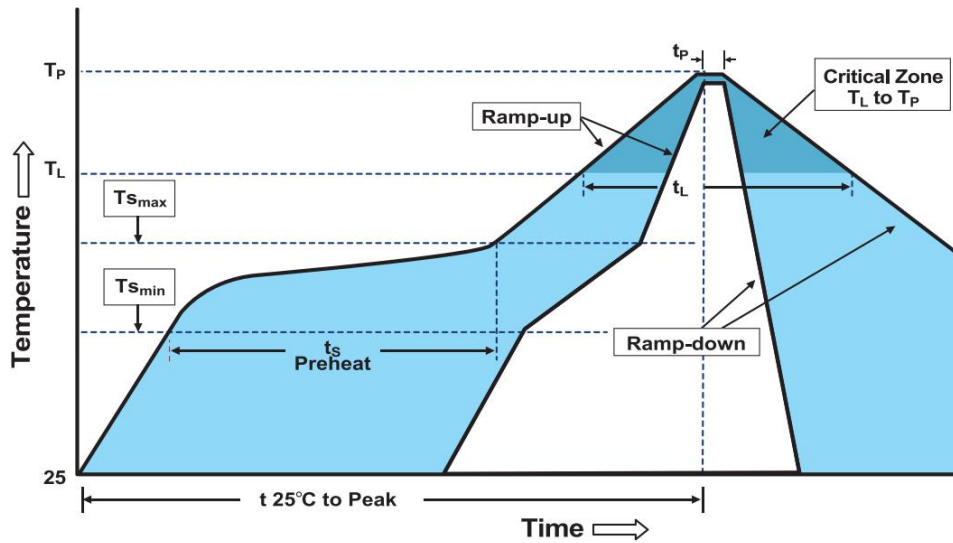
➤ Typical Time-to-Trip At 25°C



➤ Thermal Derating Chart

| Part Number  | Ambient operating temperature hold current(I <sub>hold</sub> ) |       |      |      |      |      |      |      |      |
|--------------|--|-------|------|------|------|------|------|------|------|
|              | -40°C  | -20°C | 0°C  | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| BSMD1812-010 | 0.16   | 0.14  | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| BSMD1812-014 | 0.23   | 0.19  | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 |
| BSMD1812-020 | 0.29   | 0.26  | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 |
| BSMD1812-030 | 0.44   | 0.39  | 0.35 | 0.30 | 0.26 | 0.23 | 0.21 | 0.18 | 0.15 |
| BSMD1812-050 | 0.69   | 0.59  | 0.55 | 0.50 | 0.45 | 0.43 | 0.35 | 0.30 | 0.23 |
| BSMD1812-075 | 1.10   | 0.99  | 0.87 | 0.75 | 0.63 | 0.57 | 0.49 | 0.45 | 0.35 |
| BSMD1812-110 | 1.60   | 1.45  | 1.28 | 1.10 | 0.92 | 0.83 | 0.71 | 0.66 | 0.52 |
| BSMD1812-125 | 2.00   | 1.75  | 1.52 | 1.25 | 1.00 | 0.95 | 0.90 | 0.75 | 0.53 |
| BSMD1812-150 | 2.10   | 1.96  | 1.77 | 1.50 | 1.23 | 1.09 | 0.95 | 0.82 | 0.61 |
| BSMD1812-160 | 2.30   | 2.05  | 1.88 | 1.60 | 1.26 | 1.12 | 0.98 | 0.84 | 0.63 |
| BSMD1812-200 | 2.88   | 2.61  | 2.25 | 2.00 | 1.80 | 1.66 | 1.45 | 1.09 | 0.80 |
| BSMD1812-260 | 3.90   | 3.42  | 2.96 | 2.60 | 2.22 | 2.07 | 1.94 | 1.35 | 1.00 |
| BSMD1812-300 | 4.15   | 3.76  | 3.46 | 3.00 | 2.55 | 2.28 | 2.01 | 1.61 | 1.33 |
| BSMD1812-350 | 4.84   | 4.39  | 4.04 | 3.50 | 2.98 | 2.66 | 2.35 | 1.88 | 1.55 |
| BSMD1812-400 | 4.97   | 4.62  | 4.32 | 4.00 | 3.48 | 3.16 | 2.85 | 2.38 | 2.05 |

➤ Soldering Parameters



| Profile Feature                                | Pb-Free Assembly     |
|--|----------------------|
| Average Ramp-Up Rate( $T_{s_{max}}$ to $T_p$ ) | 3°C/second max       |
| <b>Preheat</b>                                 |                      |
| -Temperature Min( $T_{s_{min}}$ )              | 150°C                |
| -Temperature Max( $T_{s_{max}}$ )              | 200°C                |
| -Time( $T_{s_{min}}$ to $T_{s_{max}}$ )        | 60~180 seconds       |
| <b>Time maintained above:</b>                  |                      |
| -Temperature( $T_L$ )                          | 217°C                |
| -Time( $t_L$ )                                 | 60~150 seconds       |
| <b>Peak Temperature(<math>T_p</math>)</b>      | 260°C                |
| <b>Ramp-Down Rate</b>                          | 6°C/second max       |
| <b>Time 25°C to Peak Temperature</b>           | 8 minutes max        |
| <b>Storage Condition</b>                       | 0°C ~30°C, 30%-60%RH |

- Recommended reflow methods: IR, vapor phase oven, hot air oven, N<sub>2</sub> environment for lead-free.
- Recommended maximum paste thickness is 0.25mm.
- Devices can be cleaned using standard industry methods and solvents.

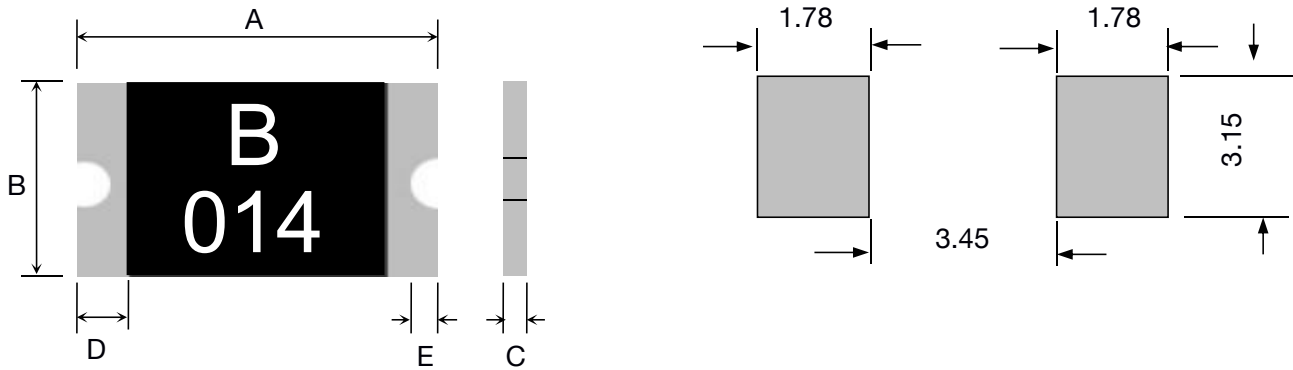
**Note 1: All temperature refer to topside of the package, measured on the package body surface.**

**Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.**

➤ Environmental Specifications

| Test  | Conditions                  | Resistance change |
|---|-----------------------------|-------------------|
| Passive aging   | +85°C, 1000 hrs.            | ±5% typical       |
| Humidity aging  | +85°C, 85% R.H. , 168 hours | ±5% typical       |
| Thermal shock   | +85°C to -40°C, 20 times    | ±33% typical      |
| Resistance to solvent   | MIL-STD-202,Method 215      | No change         |
| Vibration   | MIL-STD-202,Method 201      | No change         |
| <b>Ambient operating conditions : - 40 °C to +85 °C</b>                         |                             |                   |
| <b>Maximum surface temperature of the device in the tripped state is 125 °C</b> |                             |                   |

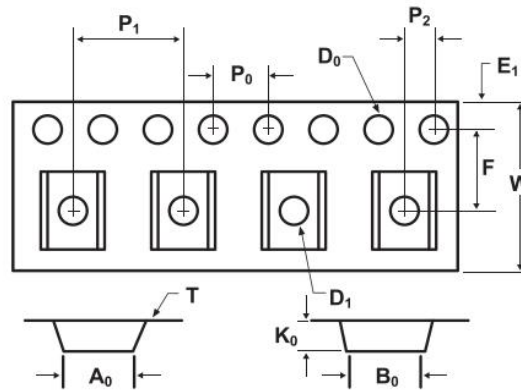
➤ Physical Dimensions & Recommended Pad Layout (mm)



| Part Number        | Marking | Quantity | A    |      | B    |      | C    |      | D    | E    |
|--------------------|---------|----------|------|------|------|------|------|------|------|------|
|                    |         |          | Min  | Max  | Min  | Max  | Min  | Max  | Min  | Min  |
| BSMD1812-010-30V   | B010    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-010-60V   | B010    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-014-60V   | B014    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-020-30V   | B020    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-020-60V   | B020    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-030-30V   | B030    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-030-60V   | B030    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-050-15V   | B050    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.25 |
| BSMD1812-050-24V   | B050    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.25 |
| BSMD1812-050-30V   | B050    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.25 |
| BSMD1812-050-60V   | B050    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-075-13.2V | B075    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-075-16V   | B075    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-075-24V   | B075    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-075-33V   | B075    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-110-8V    | B110    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.25 |
| BSMD1812-110-16V   | B110    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.25 |
| BSMD1812-110-24V   | B110    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.40 | 1.00 | 0.30 | 0.25 |
| BSMD1812-110-33V   | B110    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-125-16V   | B125    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-125-24V   | B125    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-150-8V    | B150    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-150-16V   | B150    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-150-24V   | B150    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.80 | 1.50 | 0.30 | 0.25 |
| BSMD1812-150-33V   | B150    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.80 | 1.50 | 0.30 | 0.25 |

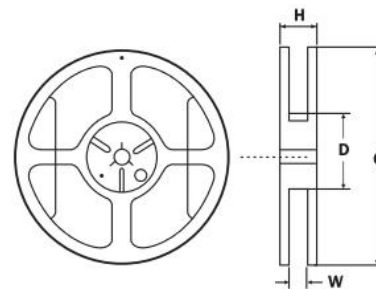
| Part Number        | Marking | Quantity | A    |      | B    |      | C    |      | D    | E    |
|--------------------|---------|----------|------|------|------|------|------|------|------|------|
|                    |         |          | Min  | Max  | Min  | Max  | Min  | Max  | Min  | Min  |
| BSMD1812-160-8V    | B160    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-160-16V   | B160    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-160-24V   | B160    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.50 | 1.10 | 0.30 | 0.25 |
| BSMD1812-200-8V    | B200    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-200-12V   | B200    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-200-16V   | B200    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.30 | 0.30 | 0.25 |
| BSMD1812-200-24V   | B200    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-200-30V   | B200    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-250-8V    | B250    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-260-8V    | B260    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-260-13.2V | B260    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-260-16V   | B260    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-300-8V    | B300    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-300-12V   | B300    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-300-16V   | B300    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-350-6V    | B350    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-350-16V   | B350    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |
| BSMD1812-400-6V    | B400    | 1500     | 4.37 | 4.73 | 3.07 | 3.41 | 0.60 | 1.50 | 0.30 | 0.25 |

➤ Tape And Reel Specifications (mm)



| Governing Specifications | BSMD1812-010-30V~<br>BSMD1812-075-33V | BSMD1812-110-16V~<br>BSMD1812-200-16V | BSMD1812-200-24V~<br>BSMD1812-400-6V |
|--------------------------|---------------------------------------|---------------------------------------|--------------------------------------|
| W                        | 12.0 ± 0.3                            | 12.0 ± 0.3                            | 12.0 ± 0.3                           |
| F                        | 5.5 ± 0.05                            | 5.5 ± 0.05                            | 5.5 ± 0.05                           |
| E1                       | 1.75 ± 0.1                            | 1.75 ± 0.1                            | 1.75 ± 0.1                           |
| D0                       | 1.55 ± 0.05                           | 1.55 ± 0.05                           | 1.55 ± 0.05                          |
| D1                       | 1.55 <sub>min</sub>                   | 1.55 <sub>min</sub>                   | 1.55 <sub>min</sub>                  |
| P0                       | 4.0 ± 0.1                             | 4.0 ± 0.1                             | 4.0 ± 0.1                            |
| P1                       | 8.0 ± 0.1                             | 8.0 ± 0.1                             | 8.0 ± 0.1                            |
| P2                       | 2.0 ± 0.05                            | 2.0 ± 0.05                            | 2.0 ± 0.05                           |
| A0                       | 3.58 ± 0.1                            | 3.58 ± 0.1                            | 3.58 ± 0.1                           |
| B0                       | 4.93 ± 0.1                            | 4.93 ± 0.1                            | 4.93 ± 0.1                           |
| T                        | 0.2 ± 0.1                             | 0.2 ± 0.1                             | 0.2 ± 0.1                            |
| K0                       | 0.74 ± 0.1                            | 1.04 ± 0.1                            | 1.35 ± 0.1                           |
| Leader <sub>min</sub>    | 390                                   | 390                                   | 390                                  |
| Trailer <sub>min</sub>   | 160                                   | 160                                   | 160                                  |

| Reel Dimensions |             |
|-----------------|-------------|
| C               | φ178 ± 1.0  |
| D               | φ60.2 ± 0.5 |
| H               | 16.0 ± 0.5  |
| W               | 13.2 ± 1.5  |



➤ Contact information

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