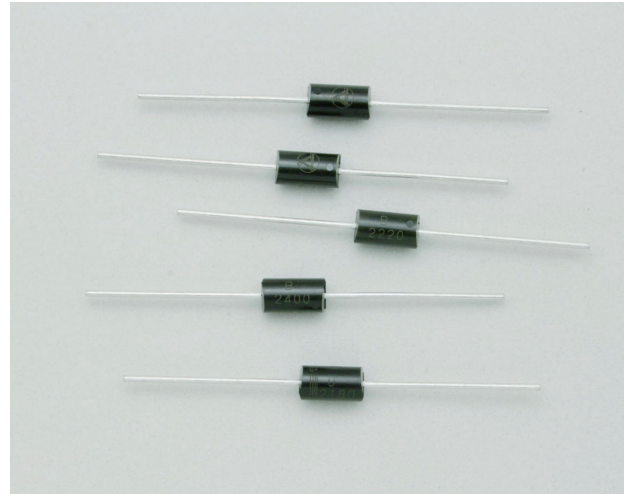


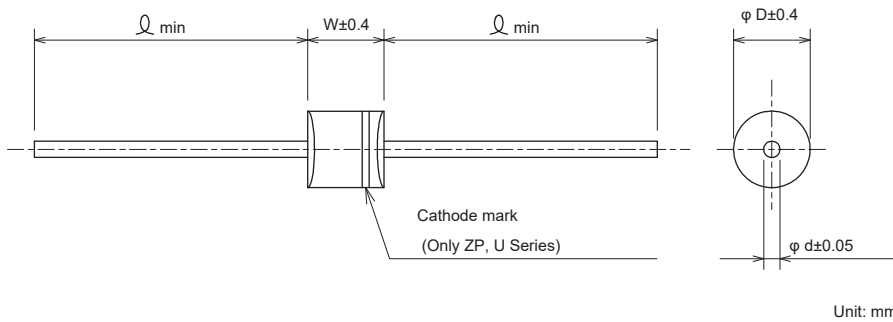


The Silicon Surge Absorber is available in five series that support the countermeasure against a wide range of surge from low to high, including electrostatic discharges and lightning surges. The device may also be used as a constant voltage device where high voltage or high power is required.



| Series | Uni-Polar Type | Bi-Polar Type | Rated Peak Impulse Current Dissipation | |
|--------|----------------|---------------|--|----------------|
| | | | 8/20 μ s | 10/100 μ s |
| 1000 | ZP | CP | 6,000 W | 500 W |
| 2000 | U | B | 18,000W | 1,500W |
| 3000 | U | B | 34,000W | 3,500W |
| 5000 | U | B | 44,000W | 5000W |

• Dimensions



| Dimensions (mm) | | | | |
|-----------------|-----|------|-----|----|
| Series | D | W | d | L |
| 1000 | 2.8 | 5.0 | 0.6 | 20 |
| 1500 | 5.3 | 9.7 | 1.0 | |
| 2000 | | | | |
| 3000 | 8.5 | 8.6 | 1.0 | |
| 5000 | 9.7 | 12.3 | 1.2 | |

Unit: mm

Electrical Specifications

1000 Series

Rated Peak Impulse Power Dissipation 6,000W (8/20 μ sec)

| Model Number*1 | Nominal Breakdown Voltage | | Maximum Working Voltage | | Rated Peak Impulse Current | |
|----------------|---------------------------|---------------------|-------------------------|---------------------------|----------------------------|--------------------|
| | V _{BR} (V) | I _T (mA) | V _{WM} (V) | I _R (μ A) | I _{PPM} (A) | V _C (V) |
| ZP1010 | 10 | 1 | 8.10 | 50 | 311 | 19.5 |
| □□1012 | 12 | | 9.72 | 5 | 267 | 22.7 |
| □□1016 | 16 | | 12.9 | | 213 | 28.4 |
| □□1018 | 18 | | 14.5 | | 178 | 34.0 |
| ZP1027 | 27 | | 21.8 | | 120 | 50.5 |
| ZP1040 | 40 | | 32.4 | | 83 | 73.0 |
| □□1050*2 | 50 | | 40.5 | | 68.9 | 88.0 |
| ZP1060 | 60 | | 48.6 | | 52.6 | 114 |
| ZP1075*2 | 75 | | 60.7 | | 42.2 | 142 |
| ZP1120 | 120 | | 97.0 | | 27.3 | 222 |

*1 ZP: Uni-Polar Type, CP: Bi-Polar Type, □□: Both ZP and CP

*2 Requirements may vary depending on the quantity ordered. Please ask for details.

Operating Temperature: -40~+125°C



Silicon surge absorber

RSSA
ZP, CP, U, B SERIES AVALANCHE BREAKDOWN DIODE



2000 Series

Rated Peak Impulse Power Dissipation 18,000W (8/20µsec)

| Model Number* | Nominal Breakdown Voltage | | Maximum Working Voltage | | Rated Peak Impulse Current 8/20µsec | |
|---------------|---------------------------|---------|-------------------------|---------|-------------------------------------|--------|
| | VBR (V) | IT (mA) | VWM (V) | IR (µA) | IPPM (A) | VC (V) |
| U2007 | 7.5 | 10 | 6.05 | 1,000 | 1241.0 | 14.5 |
| B2008 | 8.2 | | 6.63 | 400 | 1161.0 | 15.5 |
| B2010 | 10.0 | 1 | 8.10 | 20 | 968.0 | 18.6 |
| B2012 | 12.0 | | 9.72 | 5 | 829.0 | 21.7 |
| □2018 | 18.0 | | 14.50 | | 554.0 | 32.5 |
| □2022 | 22.0 | | 17.80 | | 458.0 | 39.3 |
| B2027 | 27.0 | | 21.80 | | 373.0 | 48.3 |
| □2033 | 33.0 | | 26.80 | | 305.0 | 59.0 |
| □2039 | 39.0 | | 31.60 | | 258.0 | 69.7 |
| □2047 | 47.0 | | 38.10 | | 214.0 | 84.0 |
| B2056 | 56.0 | | 45.50 | | 180.0 | 100.0 |
| B2068 | 68.0 | | 55.10 | | 148.0 | 121.0 |
| B2082 | 82.0 | | 66.40 | | 123.0 | 146.0 |
| B2100 | 100.0 | | 81.00 | | 101.0 | 178.0 |
| B2150 | 150.0 | | 121.00 | | 68.0 | 265.0 |
| □2180 | 180.0 | | 146.00 | | 57.0 | 317.0 |
| B2220 | 220.0 | 175.00 | 46.5 | | 388.0 | |
| B2250 | 250.0 | 202.00 | 40.7 | 442.0 | | |
| B2300 | 300.0 | 243.00 | 34.0 | 529.0 | | |
| B2400 | 400.0 | 324.00 | 25.5 | 706.0 | | |

* U: Uni-Polar type, B: Bi-Polar Type, □: Both U and B

Operating Temperature: -40~+125°C

3000 Series

Rated Peak Impulse Power Dissipation 34,000W (8/20µsec)

| Model Number* | Nominal Breakdown Voltage | | Maximum Working Voltage | | Rated Peak Impulse Current 8/20µsec | |
|---------------|---------------------------|---------|-------------------------|---------|-------------------------------------|--------|
| | VBR (V) | IT (mA) | VWM (V) | IR (µA) | IPPM (A) | VC (V) |
| B3008 | 8.2 | 10 | 6.63 | 2,000 | 2208 | 15.4 |
| B3010 | 10.0 | 1 | 8.10 | 100 | 1717 | 19.8 |
| □3015 | 15.0 | | 12.10 | 10 | 1145 | 29.7 |
| □3018 | 18.0 | | 14.50 | | 955 | 35.6 |
| U3022 | 22.0 | | 17.80 | | 780 | 43.6 |
| □3033 | 33.0 | | 26.80 | | 521 | 63.5 |
| B3036 | 36.0 | | 29.16 | | 478 | 71.0 |
| U3039 | 39.0 | | 31.60 | | 440 | 77.2 |
| B3056 | 56.0 | | 45.50 | | 307 | 111.0 |
| □3068 | 68.0 | | 55.10 | | 252 | 135.0 |
| B3082 | 82.0 | | 66.40 | | 210 | 162.0 |
| U3180 | 180.0 | | 146.00 | | 96 | 356.0 |

* U: Uni-Polar type, B: Bi-Polar Type, □: Both U and B

Operating Temperature: -40~+125°C

5000 Series

Rated Peak Impulse Power Dissipation 44,000W (8/20µsec)

| Model Number* | Nominal Breakdown Voltage | | Maximum Working Voltage | | Rated Peak Impulse Current 8/20µsec | |
|---------------|---------------------------|---------|-------------------------|---------|-------------------------------------|--------|
| | VBR (V) | IT (mA) | VWM (V) | IR (µA) | IPPM (A) | VC (V) |
| B5008 | 8.2 | 10 | 6.63 | 2,000 | 2819 | 15.9 |
| B5010 | 10.0 | 1 | 8.10 | 100 | 2426 | 18.5 |
| □5015 | 15.0 | | 12.10 | 10 | 1621 | 27.6 |
| □5018 | 18.0 | | 14.50 | | 1352 | 33.1 |
| U5022 | 22.0 | | 17.80 | | 1104 | 40.5 |
| □5033 | 33.0 | | 26.80 | | 737 | 60.7 |
| B5036 | 36.0 | | 29.16 | | 679 | 64.8 |
| U5039 | 39.0 | | 31.60 | | 622 | 71.9 |
| B5056 | 56.0 | | 45.50 | | 434 | 103.0 |
| □5068 | 68.0 | | 55.10 | | 358 | 126.0 |
| B5082 | 82.0 | | 66.40 | | 298 | 150.0 |
| U5180 | 180.0 | | 146.00 | | 135 | 331.0 |

* U: Uni-Polar type, B: Bi-Polar Type, □: Both U and B

Operating Temperature: -40~+125°C