

## 1500W Transient Voltage Suppressors - Surface Mount SMC Series

## SPECIFICATION

| Part Number |          | Package      | Reverse Stand-off Voltage | Breakdown Voltage |       | Test Current | Reverse Leakage Current |        | Max. Clamp Voltage | Peak Pulse Current | Circuit Code |
|-------------|----------|--------------|---------------------------|-------------------|-------|--------------|-------------------------|--------|--------------------|--------------------|--------------|
|             |          |              | $V_{RWM}$                 | $V_{BR} @ I_T$    |       | $I_T$        | $I_R @ V_{RWM}$         |        | $V_C @ I_{PP}$     | $I_{PP}$           |              |
| UNI         | BI       |              |                           | Min               | Max   |              | UNI                     | BI     |                    |                    |              |
| SMC5.0A     | SMC5.0CA | SMC/DO-214AB | 5.0                       | 6.40              | 7.00  | 10.0         | 800.0                   | 1600.0 | 9.2                | 163.00             | S01/D01      |
| SMC6.0A     | SMC6.0CA | SMC/DO-214AB | 6.0                       | 6.67              | 7.37  | 10.0         | 800.0                   | 1600.0 | 10.3               | 145.70             | S01/D01      |
| SMC6.5A     | SMC6.5CA | SMC/DO-214AB | 6.5                       | 7.22              | 7.98  | 10.0         | 500.0                   | 800.0  | 11.2               | 134.00             | S01/D01      |
| SMC7.0A     | SMC7.0CA | SMC/DO-214AB | 7.0                       | 7.78              | 8.60  | 10.0         | 200.0                   | 500.0  | 12.0               | 125.00             | S01/D01      |
| SMC7.5A     | SMC7.5CA | SMC/DO-214AB | 7.5                       | 8.33              | 9.21  | 1.0          | 100.0                   | 200.0  | 12.9               | 116.30             | S01/D01      |
| SMC8.0A     | SMC8.0CA | SMC/DO-214AB | 8.0                       | 8.89              | 9.83  | 1.0          | 50.0                    | 100.0  | 13.6               | 110.30             | S01/D01      |
| SMC8.5A     | SMC8.5CA | SMC/DO-214AB | 8.5                       | 9.44              | 10.40 | 1.0          | 20.0                    | 50.0   | 14.4               | 104.20             | S01/D01      |
| SMC9.0A     | SMC9.0CA | SMC/DO-214AB | 9.0                       | 10.00             | 11.10 | 1.0          | 10.0                    | 20.0   | 15.4               | 97.40              | S01/D01      |
| SMC10A      | SMC10CA  | SMC/DO-214AB | 10.0                      | 11.10             | 12.30 | 1.0          | 5.0                     | 10.0   | 17.0               | 88.30              | S01/D01      |
| SMC11A      | SMC11CA  | SMC/DO-214AB | 11.0                      | 12.20             | 13.50 | 1.0          | 1.0                     | 5.0    | 18.2               | 82.50              | S01/D01      |
| SMC12A      | SMC12CA  | SMC/DO-214AB | 12.0                      | 13.30             | 14.70 | 1.0          | 1.0                     | 1.0    | 19.9               | 75.40              | S01/D01      |
| SMC13A      | SMC13CA  | SMC/DO-214AB | 13.0                      | 14.40             | 15.90 | 1.0          | 1.0                     | 1.0    | 21.5               | 69.80              | S01/D01      |
| SMC14A      | SMC14CA  | SMC/DO-214AB | 14.0                      | 15.60             | 17.20 | 1.0          | 1.0                     | 1.0    | 23.2               | 64.70              | S01/D01      |
| SMC15A      | SMC15CA  | SMC/DO-214AB | 15.0                      | 16.70             | 18.50 | 1.0          | 1.0                     | 1.0    | 24.4               | 61.50              | S01/D01      |
| SMC16A      | SMC16CA  | SMC/DO-214AB | 16.0                      | 17.80             | 19.70 | 1.0          | 1.0                     | 1.0    | 26.0               | 57.70              | S01/D01      |
| SMC17A      | SMC17CA  | SMC/DO-214AB | 17.0                      | 18.90             | 20.90 | 1.0          | 1.0                     | 1.0    | 27.6               | 54.40              | S01/D01      |
| SMC18A      | SMC18CA  | SMC/DO-214AB | 18.0                      | 20.00             | 22.10 | 1.0          | 1.0                     | 1.0    | 29.2               | 51.40              | S01/D01      |
| SMC20A      | SMC20CA  | SMC/DO-214AB | 20.0                      | 22.20             | 24.50 | 1.0          | 1.0                     | 1.0    | 32.4               | 46.30              | S01/D01      |
| SMC22A      | SMC22CA  | SMC/DO-214AB | 22.0                      | 24.40             | 26.90 | 1.0          | 1.0                     | 1.0    | 35.5               | 42.30              | S01/D01      |
| SMC24A      | SMC24CA  | SMC/DO-214AB | 24.0                      | 26.70             | 29.50 | 1.0          | 1.0                     | 1.0    | 38.9               | 38.60              | S01/D01      |
| SMC26A      | SMC26CA  | SMC/DO-214AB | 26.0                      | 28.90             | 31.90 | 1.0          | 1.0                     | 1.0    | 42.1               | 35.70              | S01/D01      |
| SMC28A      | SMC28CA  | SMC/DO-214AB | 28.0                      | 31.10             | 34.40 | 1.0          | 1.0                     | 1.0    | 45.4               | 33.10              | S01/D01      |
| SMC30A      | SMC30CA  | SMC/DO-214AB | 30.0                      | 33.30             | 36.80 | 1.0          | 1.0                     | 1.0    | 48.4               | 31.00              | S01/D01      |
| SMC33A      | SMC33CA  | SMC/DO-214AB | 33.0                      | 36.70             | 40.60 | 1.0          | 1.0                     | 1.0    | 53.3               | 28.20              | S01/D01      |
| SMC36A      | SMC36CA  | SMC/DO-214AB | 36.0                      | 40.00             | 44.20 | 1.0          | 1.0                     | 1.0    | 58.1               | 25.90              | S01/D01      |
| SMC40A      | SMC40CA  | SMC/DO-214AB | 40.0                      | 44.40             | 49.10 | 1.0          | 1.0                     | 1.0    | 64.5               | 23.30              | S01/D01      |
| SMC43A      | SMC43CA  | SMC/DO-214AB | 43.0                      | 47.80             | 52.80 | 1.0          | 1.0                     | 1.0    | 69.4               | 21.70              | S01/D01      |
| SMC45A      | SMC45CA  | SMC/DO-214AB | 45.0                      | 50.00             | 55.30 | 1.0          | 1.0                     | 1.0    | 72.7               | 20.60              | S01/D01      |
| SMC48A      | SMC48CA  | SMC/DO-214AB | 48.0                      | 53.30             | 58.90 | 1.0          | 1.0                     | 1.0    | 77.4               | 19.40              | S01/D01      |
| SMC51A      | SMC51CA  | SMC/DO-214AB | 51.0                      | 56.70             | 62.70 | 1.0          | 1.0                     | 1.0    | 82.4               | 18.20              | S01/D01      |
| SMC54A      | SMC54CA  | SMC/DO-214AB | 54.0                      | 60.00             | 66.30 | 1.0          | 1.0                     | 1.0    | 87.1               | 17.30              | S01/D01      |
| SMC58A      | SMC58CA  | SMC/DO-214AB | 58.0                      | 64.40             | 71.20 | 1.0          | 1.0                     | 1.0    | 93.6               | 16.10              | S01/D01      |
| SMC60A      | SMC60CA  | SMC/DO-214AB | 60.0                      | 66.70             | 73.70 | 1.0          | 1.0                     | 1.0    | 96.8               | 15.50              | S01/D01      |

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| Part Number |          | Package      | Reverse Stand-off Voltage | Breakdown Voltage |        | Test Current | Reverse Leakage Current |         | Max. Clamp Voltage | Peak Pulse Current | Circuit Code |
|-------------|----------|--------------|---------------------------|-------------------|--------|--------------|-------------------------|---------|--------------------|--------------------|--------------|
|             |          |              | $V_{RWM}$                 | $V_{BR} @ I_T$    |        | $I_T$        | $I_R @ V_{RWM}$         |         | $V_C @ I_{PP}$     | $I_{PP}$           |              |
| UNI         | BI       |              |                           | UNI               | BI     |              | V                       | A       |                    |                    |              |
| UNI         | BI       |              | V                         | V                 | V      | mA           | $\mu$ A                 | $\mu$ A | V                  | A                  |              |
| SMC64A      | SMC64CA  | SMC/DO-214AB | 64.0                      | 71.10             | 78.60  | 1.0          | 1.0                     | 1.0     | 103.0              | 14.60              | S01/D01      |
| SMC70A      | SMC70CA  | SMC/DO-214AB | 70.0                      | 77.80             | 86.00  | 1.0          | 1.0                     | 1.0     | 113.0              | 13.30              | S01/D01      |
| SMC75A      | SMC75CA  | SMC/DO-214AB | 75.0                      | 83.30             | 92.10  | 1.0          | 1.0                     | 1.0     | 121.0              | 12.40              | S01/D01      |
| SMC78A      | SMC78CA  | SMC/DO-214AB | 78.0                      | 86.70             | 95.80  | 1.0          | 1.0                     | 1.0     | 126.0              | 11.90              | S01/D01      |
| SMC85A      | SMC85CA  | SMC/DO-214AB | 85.0                      | 94.40             | 104.00 | 1.0          | 1.0                     | 1.0     | 137.0              | 11.00              | S01/D01      |
| SMC90A      | SMC90CA  | SMC/DO-214AB | 90.0                      | 100.00            | 111.00 | 1.0          | 1.0                     | 1.0     | 146.0              | 10.30              | S01/D01      |
| SMC100A     | SMC100CA | SMC/DO-214AB | 100.0                     | 111.00            | 123.00 | 1.0          | 1.0                     | 1.0     | 162.0              | 9.30               | S01/D01      |
| SMC110A     | SMC110CA | SMC/DO-214AB | 110.0                     | 122.00            | 135.00 | 1.0          | 1.0                     | 1.0     | 177.0              | 8.50               | S01/D01      |
| SMC120A     | SMC120CA | SMC/DO-214AB | 120.0                     | 133.00            | 147.00 | 1.0          | 1.0                     | 1.0     | 193.0              | 7.80               | S01/D01      |
| SMC130A     | SMC130CA | SMC/DO-214AB | 130.0                     | 144.00            | 159.00 | 1.0          | 1.0                     | 1.0     | 209.0              | 7.20               | S01/D01      |
| SMC150A     | SMC150CA | SMC/DO-214AB | 150.0                     | 167.00            | 185.00 | 1.0          | 1.0                     | 1.0     | 243.0              | 6.20               | S01/D01      |
| SMC160A     | SMC160CA | SMC/DO-214AB | 160.0                     | 178.00            | 197.00 | 1.0          | 1.0                     | 1.0     | 259.0              | 5.80               | S01/D01      |
| SMC170A     | SMC170CA | SMC/DO-214AB | 170.0                     | 189.00            | 209.00 | 1.0          | 1.0                     | 1.0     | 275.0              | 5.50               | S01/D01      |
| SMC180A     | SMC180CA | SMC/DO-214AB | 180.0                     | 200.00            | 220.00 | 1.0          | 1.0                     | 1.0     | 292.0              | 5.10               | S01/D01      |
| SMC200A     | SMC200CA | SMC/DO-214AB | 200.0                     | 224.00            | 247.00 | 1.0          | 1.0                     | 1.0     | 324.0              | 4.60               | S01/D01      |
| SMC220A     | SMC220CA | SMC/DO-214AB | 220.0                     | 246.00            | 272.00 | 1.0          | 1.0                     | 1.0     | 356.0              | 4.20               | S01/D01      |
| SMC250A     | SMC250CA | SMC/DO-214AB | 250.0                     | 279.00            | 309.00 | 1.0          | 1.0                     | 1.0     | 405.0              | 3.70               | S01/D01      |
| SMC300A     | SMC300CA | SMC/DO-214AB | 300.0                     | 335.00            | 371.00 | 1.0          | 1.0                     | 1.0     | 486.0              | 3.10               | S01/D01      |
| SMC350A     | SMC350CA | SMC/DO-214AB | 350.0                     | 391.00            | 432.00 | 1.0          | 1.0                     | 1.0     | 567.0              | 2.60               | S01/D01      |
| SMC400A     | SMC400CA | SMC/DO-214AB | 400.0                     | 447.00            | 494.00 | 1.0          | 1.0                     | 1.0     | 648.0              | 2.30               | S01/D01      |
| SMC440A     | SMC440CA | SMC/DO-214AB | 440.0                     | 492.00            | 543.00 | 1.0          | 1.0                     | 1.0     | 713.0              | 2.10               | S01/D01      |