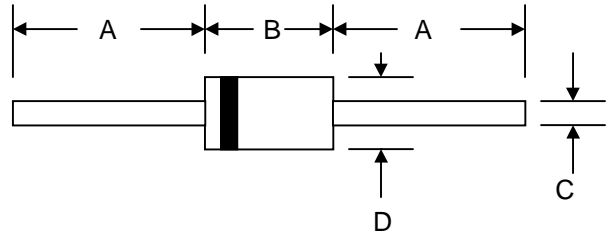


# SA5.0/A/C/CA – SA170/A/C/CA

## 500W TRANSIENT VOLTAGE SUPPRESSORS

### Features

- Glass Passivated Die Construction
- 500W Peak Pulse Power Dissipation
- 5.0V – 170V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



### Mechanical Data

- Case: JEDEC DO-15 Low Profile Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking:  
 Unidirectional – Device Code and Cathode Band  
 Bidirectional – Device Code Only
- Weight: 0.40 grams (approx.)

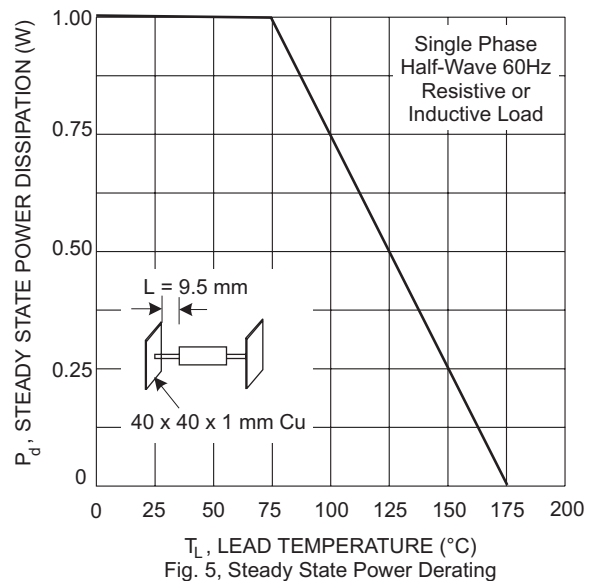
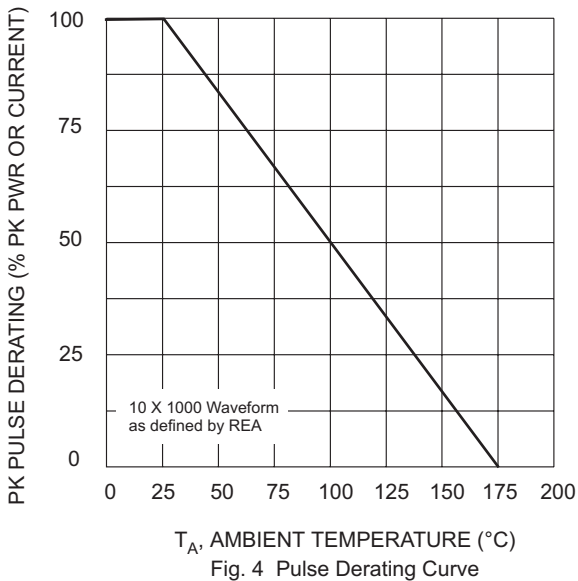
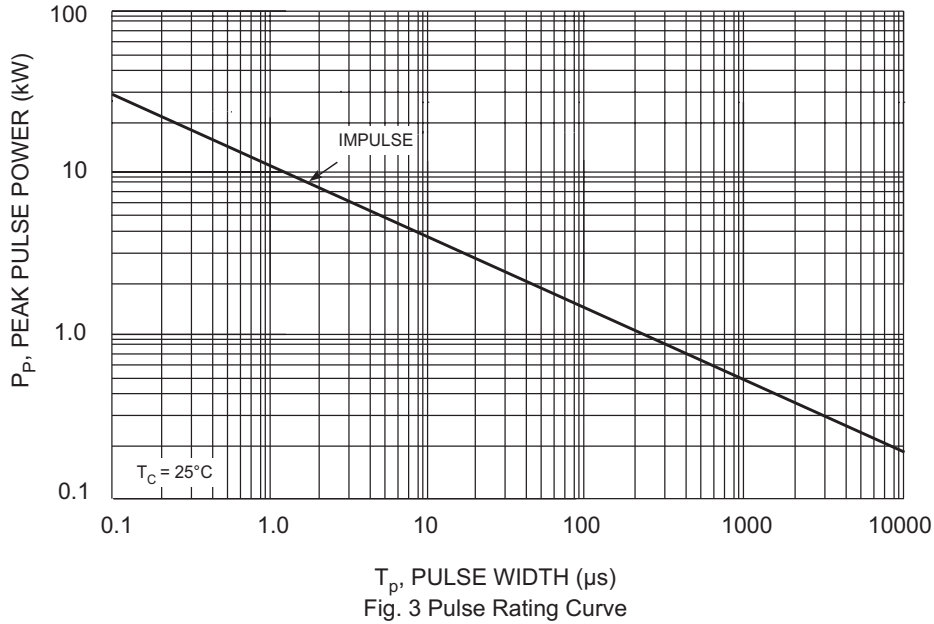
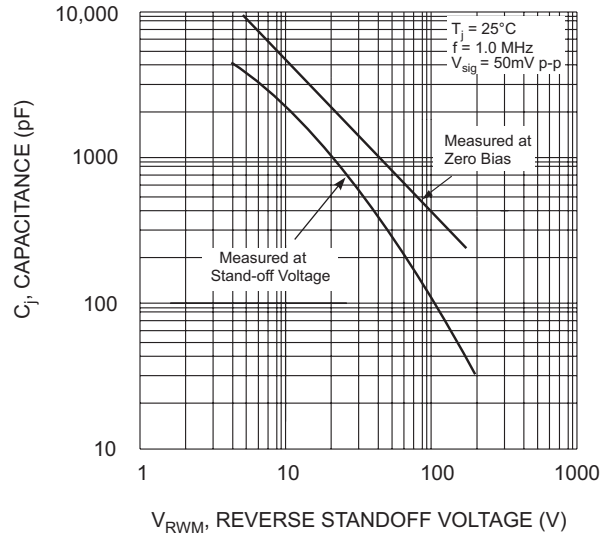
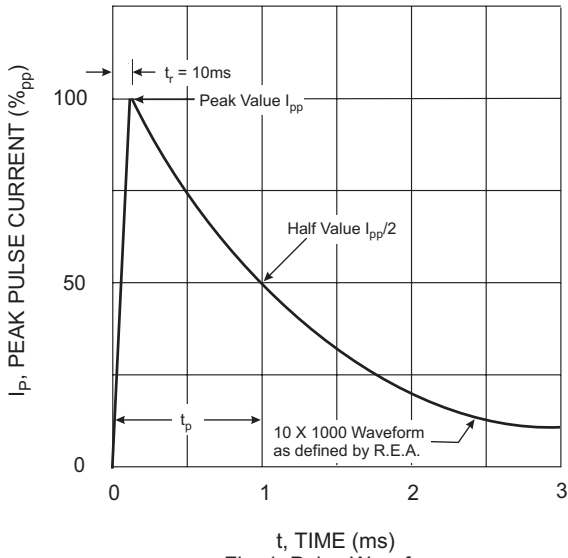
| DO-15                |      |       |
|----------------------|------|-------|
| Dim                  | Min  | Max   |
| A                    | 25.4 | —     |
| B                    | 5.50 | 7.62  |
| C                    | 0.71 | 0.864 |
| D                    | 2.60 | 3.60  |
| All Dimensions in mm |      |       |

“C” Suffix Designates Bi-directional Devices  
 “A” Suffix Designates 5% Tolerance Devices  
 No Suffix Designates 10% Tolerance Devices

### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

| Characteristic   | Symbol         | Value       | Unit             |
|--|----------------|-------------|------------------|
| Peak Pulse Power Dissipation at $T_A = 25^\circ\text{C}$ (Note 1, 2, 5) Figure 3 | PPPM           | 500 Minimum | W                |
| Peak Forward Surge Current (Note 3)  | IFSM           | 70          | A                |
| Peak Pulse Current on 10/1000 $\mu\text{S}$ Waveform (Note 1) Figure 1           | IPPM           | See Table 1 | A                |
| Steady State Power Dissipation (Note 2, 4)                                       | PM(AV)         | 1.0         | W                |
| Operating and Storage Temperature Range  | $T_J, T_{STG}$ | -65 to +175 | $^\circ\text{C}$ |

- Note: 1. Non-repetitive current pulse, per Figure 1 and derated above  $T_A = 25^\circ\text{C}$  per Figure 4.  
 2. Mounted on 40mm<sup>2</sup> copper pad.  
 3. 8.3ms single half sine-wave duty cycle = 4 pulses per minutes maximum.  
 4. Lead temperature at  $75^\circ\text{C} = T_L$ .  
 5. Peak pulse power waveform is 10/1000 $\mu\text{S}$ .



## UNI-DIRECTIONAL 500 WATT AXIAL LEAD TVS

| UNI-DIRECTIONAL PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| SA5.0                       | 5.00                               | 6.40                               | 7.30                               | 10                   | 9.6                                  | 52.3                       | 600                           |
| SA5.0A                      | 5.00                               | 6.40                               | 7.00                               | 10                   | 9.2                                  | 54.3                       | 600                           |
| SA6.0                       | 6.00                               | 6.67                               | 8.15                               | 10                   | 11.4                                 | 43.9                       | 600                           |
| SA6.0A                      | 6.00                               | 6.67                               | 7.37                               | 10                   | 10.3                                 | 48.5                       | 600                           |
| SA6.5                       | 6.50                               | 7.22                               | 8.82                               | 10                   | 12.3                                 | 40.7                       | 400                           |
| SA6.5A                      | 6.50                               | 7.22                               | 7.98                               | 10                   | 11.2                                 | 44.7                       | 400                           |
| SA7.0                       | 7.00                               | 7.78                               | 9.51                               | 10                   | 13.3                                 | 37.8                       | 150                           |
| SA7.0A                      | 7.00                               | 7.78                               | 8.60                               | 10                   | 12.0                                 | 41.7                       | 150                           |
| SA7.5                       | 7.50                               | 8.33                               | 10.20                              | 1                    | 14.3                                 | 35.0                       | 50                            |
| SA7.5A                      | 7.50                               | 8.33                               | 9.21                               | 1                    | 12.9                                 | 38.8                       | 50                            |
| SA8.0                       | 8.00                               | 8.99                               | 10.90                              | 1                    | 15.0                                 | 33.3                       | 25                            |
| SA8.0A                      | 8.00                               | 8.99                               | 9.83                               | 1                    | 13.6                                 | 36.7                       | 25                            |
| SA8.5                       | 8.50                               | 9.44                               | 11.50                              | 1                    | 15.9                                 | 31.4                       | 10                            |
| SA8.5A                      | 8.50                               | 9.44                               | 10.40                              | 1                    | 14.4                                 | 34.7                       | 10                            |
| SA9.0                       | 9.00                               | 10.00                              | 12.20                              | 1                    | 16.9                                 | 29.5                       | 5                             |
| SA9.0A                      | 9.00                               | 10.00                              | 11.10                              | 1                    | 15.4                                 | 32.5                       | 5                             |
| SA10                        | 10.00                              | 11.10                              | 13.60                              | 1                    | 18.8                                 | 26.6                       | 3                             |
| SA10A                       | 10.00                              | 11.10                              | 12.30                              | 1                    | 17.0                                 | 29.4                       | 3                             |
| SA11                        | 11.00                              | 12.20                              | 14.90                              | 1                    | 20.1                                 | 24.9                       | 3                             |
| SA11A                       | 11.00                              | 12.20                              | 13.50                              | 1                    | 18.2                                 | 27.4                       | 3                             |
| SA12                        | 12.00                              | 13.30                              | 16.30                              | 1                    | 22.0                                 | 22.7                       | 3                             |
| SA12A                       | 12.00                              | 13.30                              | 14.70                              | 1                    | 19.9                                 | 25.1                       | 3                             |
| SA13                        | 13.00                              | 14.40                              | 17.60                              | 1                    | 23.8                                 | 21.0                       | 3                             |
| SA13A                       | 13.00                              | 14.40                              | 15.90                              | 1                    | 21.5                                 | 23.2                       | 3                             |
| SA14                        | 14.00                              | 15.60                              | 19.10                              | 1                    | 25.8                                 | 19.4                       | 3                             |
| SA14A                       | 14.00                              | 15.60                              | 17.20                              | 1                    | 23.2                                 | 21.5                       | 3                             |
| SA15                        | 15.00                              | 16.70                              | 20.40                              | 1                    | 26.9                                 | 18.8                       | 3                             |
| SA15A                       | 15.00                              | 16.70                              | 18.50                              | 1                    | 24.4                                 | 20.6                       | 3                             |
| SA16                        | 16.00                              | 17.80                              | 21.80                              | 1                    | 28.8                                 | 17.6                       | 3                             |
| SA16A                       | 16.00                              | 17.80                              | 19.70                              | 1                    | 26.0                                 | 19.2                       | 3                             |
| SA17                        | 17.00                              | 18.90                              | 23.10                              | 1                    | 30.5                                 | 16.4                       | 3                             |
| SA17A                       | 17.00                              | 18.90                              | 20.90                              | 1                    | 27.6                                 | 16.1                       | 3                             |
| SA18                        | 18.00                              | 20.00                              | 24.40                              | 1                    | 32.2                                 | 15.5                       | 3                             |
| SA18A                       | 18.00                              | 20.00                              | 22.10                              | 1                    | 29.2                                 | 17.2                       | 3                             |
| SA20                        | 20.00                              | 22.20                              | 27.10                              | 1                    | 35.8                                 | 13.9                       | 3                             |
| SA20A                       | 20.00                              | 22.20                              | 24.50                              | 1                    | 32.4                                 | 15.4                       | 3                             |
| SA22                        | 22.00                              | 24.40                              | 29.80                              | 1                    | 39.4                                 | 12.7                       | 3                             |
| SA22A                       | 22.00                              | 24.40                              | 26.90                              | 1                    | 35.5                                 | 14.1                       | 3                             |
| SA24                        | 24.00                              | 26.70                              | 32.60                              | 1                    | 43.0                                 | 11.6                       | 3                             |
| SA24A                       | 24.00                              | 26.70                              | 29.50                              | 1                    | 38.9                                 | 12.8                       | 3                             |
| SA26                        | 26.00                              | 28.90                              | 35.30                              | 1                    | 46.6                                 | 10.7                       | 3                             |
| SA26A                       | 26.00                              | 28.90                              | 31.90                              | 1                    | 42.1                                 | 11.9                       | 3                             |
| SA28                        | 28.00                              | 31.10                              | 38.00                              | 1                    | 50.0                                 | 9.9                        | 3                             |
| SA28A                       | 28.00                              | 31.10                              | 34.40                              | 1                    | 45.4                                 | 11.0                       | 3                             |
| SA30                        | 30.00                              | 33.30                              | 40.70                              | 1                    | 53.5                                 | 9.3                        | 3                             |
| SA30A                       | 30.00                              | 33.30                              | 36.80                              | 1                    | 48.4                                 | 10.3                       | 3                             |
| SA33                        | 33.00                              | 36.70                              | 44.90                              | 1                    | 59.0                                 | 8.5                        | 3                             |
| SA33A                       | 33.00                              | 36.70                              | 40.60                              | 1                    | 53.3                                 | 9.4                        | 3                             |
| SA36                        | 36.00                              | 40.00                              | 48.90                              | 1                    | 64.3                                 | 7.8                        | 3                             |
| SA36A                       | 36.00                              | 40.00                              | 44.20                              | 1                    | 58.1                                 | 8.6                        | 3                             |
| SA40                        | 40.00                              | 44.40                              | 54.30                              | 1                    | 71.4                                 | 7.0                        | 3                             |
| SA40A                       | 40.00                              | 44.40                              | 49.10                              | 1                    | 64.5                                 | 7.8                        | 3                             |
| SA43                        | 43.00                              | 47.80                              | 58.40                              | 1                    | 76.6                                 | 6.5                        | 3                             |
| SA43A                       | 43.00                              | 47.80                              | 52.80                              | 1                    | 69.4                                 | 7.2                        | 3                             |
| SA45                        | 45.00                              | 50.00                              | 61.10                              | 1                    | 80.3                                 | 6.2                        | 3                             |
| SA45A                       | 45.00                              | 50.00                              | 55.30                              | 1                    | 72.7                                 | 6.9                        | 3                             |
| SA48                        | 48.00                              | 53.30                              | 65.10                              | 1                    | 85.5                                 | 5.8                        | 3                             |
| SA48A                       | 48.00                              | 53.30                              | 58.90                              | 1                    | 77.4                                 | 6.5                        | 3                             |
| SA51                        | 51.00                              | 56.70                              | 69.30                              | 1                    | 91.1                                 | 5.5                        | 3                             |
| SA51A                       | 51.00                              | 56.70                              | 62.70                              | 1                    | 82.4                                 | 6.1                        | 3                             |
| SA54                        | 54.00                              | 60.00                              | 73.30                              | 1                    | 96.3                                 | 5.2                        | 3                             |
| SA54A                       | 54.00                              | 60.00                              | 66.30                              | 1                    | 87.1                                 | 5.7                        | 3                             |
| SA58                        | 58.00                              | 64.40                              | 78.70                              | 1                    | 103.0                                | 4.9                        | 3                             |
| SA58A                       | 58.00                              | 64.40                              | 71.20                              | 1                    | 93.6                                 | 5.3                        | 3                             |
| SA60                        | 60.00                              | 66.70                              | 81.50                              | 1                    | 107.0                                | 4.7                        | 3                             |
| SA60A                       | 60.00                              | 66.70                              | 73.70                              | 1                    | 96.8                                 | 5.2                        | 3                             |
| SA64                        | 64.00                              | 71.10                              | 86.90                              | 1                    | 114.0                                | 4.4                        | 3                             |
| SA64A                       | 64.00                              | 71.10                              | 78.60                              | 1                    | 103.0                                | 4.9                        | 3                             |
| SA70                        | 70.00                              | 77.80                              | 95.10                              | 1                    | 125.0                                | 4.0                        | 3                             |
| SA70A                       | 70.00                              | 77.80                              | 86.00                              | 1                    | 113.0                                | 4.4                        | 3                             |
| SA75                        | 75.00                              | 83.30                              | 102.00                             | 1                    | 134.0                                | 3.7                        | 3                             |
| SA75A                       | 75.00                              | 83.30                              | 92.10                              | 1                    | 121.0                                | 4.1                        | 3                             |
| SA78                        | 78.00                              | 86.70                              | 106.00                             | 1                    | 139.0                                | 3.6                        | 3                             |
| SA78A                       | 78.00                              | 86.70                              | 95.80                              | 1                    | 126.0                                | 4.0                        | 3                             |
| SA85                        | 85.00                              | 94.40                              | 115.00                             | 1                    | 151.0                                | 3.3                        | 3                             |
| SA85A                       | 85.00                              | 94.40                              | 104.00                             | 1                    | 137.0                                | 3.6                        | 3                             |
| SA90                        | 90.00                              | 100.00                             | 122.00                             | 1                    | 160.0                                | 3.1                        | 3                             |
| SA90A                       | 90.00                              | 100.00                             | 111.00                             | 1                    | 146.0                                | 3.4                        | 3                             |
| SA100                       | 100.00                             | 111.00                             | 136.00                             | 1                    | 179.0                                | 2.8                        | 3                             |
| SA100A                      | 100.00                             | 111.00                             | 123.00                             | 1                    | 162.0                                | 3.1                        | 3                             |
| SA110                       | 110.00                             | 122.00                             | 149.00                             | 1                    | 196.0                                | 2.6                        | 3                             |
| SA110A                      | 110.00                             | 122.00                             | 135.00                             | 1                    | 177.0                                | 2.8                        | 3                             |
| SA120                       | 120.00                             | 133.00                             | 163.00                             | 1                    | 214.0                                | 2.3                        | 3                             |
| SA120A                      | 120.00                             | 133.00                             | 147.00                             | 1                    | 193.0                                | 2.0                        | 3                             |
| SA130                       | 130.00                             | 144.00                             | 176.00                             | 1                    | 231.0                                | 2.2                        | 3                             |
| SA130A                      | 130.00                             | 144.00                             | 159.00                             | 1                    | 209.0                                | 2.4                        | 3                             |
| SA150                       | 150.00                             | 167.00                             | 204.00                             | 1                    | 269.0                                | 1.9                        | 3                             |
| SA150A                      | 150.00                             | 167.00                             | 185.00                             | 1                    | 243.0                                | 2.1                        | 3                             |
| SA160                       | 160.00                             | 178.00                             | 218.00                             | 1                    | 287.0                                | 1.7                        | 3                             |
| SA160A                      | 160.00                             | 178.00                             | 197.00                             | 1                    | 259.0                                | 1.9                        | 3                             |
| SA170                       | 170.00                             | 189.00                             | 231.00                             | 1                    | 304.0                                | 1.6                        | 3                             |
| SA170A                      | 170.00                             | 189.00                             | 209.00                             | 1                    | 275.0                                | 1.8                        | 3                             |

## BI-DIRECTIONAL 500 WATT AXIAL LEAD TVS

| BI-DIRECTIONAL PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| SA5.0C                     | 5.00                               | 6.40                               | 7.30                               | 10                   | 9.6                                  | 52.3                       | 1200                          |
| SA5.0CA                    | 5.00                               | 6.40                               | 7.00                               | 10                   | 9.2                                  | 54.3                       | 1200                          |
| SA6.0C                     | 6.00                               | 6.67                               | 8.15                               | 10                   | 11.4                                 | 43.9                       | 1200                          |
| SA6.0CA                    | 6.00                               | 6.67                               | 7.37                               | 10                   | 10.3                                 | 48.5                       | 1200                          |
| SA6.5C                     | 6.50                               | 7.22                               | 8.82                               | 10                   | 12.3                                 | 40.7                       | 800                           |
| SA6.5CA                    | 6.50                               | 7.22                               | 7.98                               | 10                   | 11.2                                 | 44.7                       | 800                           |
| SA7.0C                     | 7.00                               | 7.78                               | 9.51                               | 10                   | 13.3                                 | 37.8                       | 300                           |
| SA7.0CA                    | 7.00                               | 7.78                               | 8.60                               | 10                   | 12.0                                 | 41.7                       | 300                           |
| SA7.5C                     | 7.50                               | 8.33                               | 10.20                              | 1                    | 14.3                                 | 35.0                       | 100                           |
| SA7.5CA                    | 7.50                               | 8.33                               | 9.21                               | 1                    | 12.9                                 | 38.8                       | 100                           |
| SA8.0C                     | 8.00                               | 8.99                               | 10.90                              | 1                    | 15.0                                 | 33.3                       | 50                            |
| SA8.0CA                    | 8.00                               | 8.99                               | 9.83                               | 1                    | 13.6                                 | 36.7                       | 50                            |
| SA8.5C                     | 8.50                               | 9.44                               | 11.50                              | 1                    | 15.9                                 | 31.4                       | 20                            |
| SA8.5CA                    | 8.50                               | 9.44                               | 10.40                              | 1                    | 14.4                                 | 34.7                       | 20                            |
| SA9.0C                     | 9.00                               | 10.00                              | 12.20                              | 1                    | 16.9                                 | 29.5                       | 5                             |
| SA9.0CA                    | 9.00                               | 10.00                              | 11.10                              | 1                    | 15.4                                 | 32.5                       | 5                             |
| SA10C                      | 10.00                              | 11.10                              | 13.60                              | 1                    | 18.8                                 | 26.6                       | 3                             |
| SA10CA                     | 10.00                              | 11.10                              | 12.30                              | 1                    | 17.0                                 | 29.4                       | 3                             |
| SA11C                      | 11.00                              | 12.20                              | 14.90                              | 1                    | 20.1                                 | 24.9                       | 3                             |
| SA11CA                     | 11.00                              | 12.20                              | 13.50                              | 1                    | 18.2                                 | 27.4                       | 3                             |
| SA12C                      | 12.00                              | 13.30                              | 16.30                              | 1                    | 22.0                                 | 22.7                       | 3                             |
| SA12CA                     | 12.00                              | 13.30                              | 14.70                              | 1                    | 19.9                                 | 25.1                       | 3                             |
| SA13C                      | 13.00                              | 14.40                              | 17.60                              | 1                    | 23.8                                 | 21.0                       | 3                             |
| SA13CA                     | 13.00                              | 14.40                              | 15.90                              | 1                    | 21.5                                 | 23.2                       | 3                             |
| SA14C                      | 14.00                              | 15.60                              | 19.10                              | 1                    | 25.8                                 | 19.4                       | 3                             |
| SA14CA                     | 14.00                              | 15.60                              | 17.20                              | 1                    | 23.2                                 | 21.5                       | 3                             |
| SA15C                      | 15.00                              | 16.70                              | 20.40                              | 1                    | 26.9                                 | 18.8                       | 3                             |
| SA15CA                     | 15.00                              | 16.70                              | 18.50                              | 1                    | 24.4                                 | 20.6                       | 3                             |
| SA16C                      | 16.00                              | 17.80                              | 21.80                              | 1                    | 28.8                                 | 17.6                       | 3                             |
| SA16CA                     | 16.00                              | 17.80                              | 19.70                              | 1                    | 26.0                                 | 19.2                       | 3                             |
| SA17C                      | 17.00                              | 18.90                              | 23.10                              | 1                    | 30.5                                 | 16.4                       | 3                             |
| SA17CA                     | 17.00                              | 18.90                              | 20.90                              | 1                    | 27.6                                 | 16.1                       | 3                             |
| SA18C                      | 18.00                              | 20.00                              | 24.40                              | 1                    | 32.2                                 | 15.5                       | 3                             |
| SA18CA                     | 18.00                              | 20.00                              | 22.10                              | 1                    | 29.2                                 | 17.2                       | 3                             |
| SA20C                      | 20.00                              | 22.20                              | 27.10                              | 1                    | 35.8                                 | 13.9                       | 3                             |
| SA20CA                     | 20.00                              | 22.20                              | 24.50                              | 1                    | 32.4                                 | 15.4                       | 3                             |
| SA22C                      | 22.00                              | 24.40                              | 29.80                              | 1                    | 39.4                                 | 12.7                       | 3                             |
| SA22CA                     | 22.00                              | 24.40                              | 26.90                              | 1                    | 35.5                                 | 14.1                       | 3                             |
| SA24C                      | 24.00                              | 26.70                              | 32.60                              | 1                    | 43.0                                 | 11.6                       | 3                             |
| SA24CA                     | 24.00                              | 26.70                              | 29.50                              | 1                    | 38.9                                 | 12.8                       | 3                             |
| SA26C                      | 26.00                              | 28.90                              | 35.30                              | 1                    | 46.6                                 | 10.7                       | 3                             |
| SA26CA                     | 26.00                              | 28.90                              | 31.90                              | 1                    | 42.1                                 | 11.9                       | 3                             |
| SA28C                      | 28.00                              | 31.10                              | 38.00                              | 1                    | 50.0                                 | 9.9                        | 3                             |
| SA28CA                     | 28.00                              | 31.10                              | 34.40                              | 1                    | 45.4                                 | 11.0                       | 3                             |
| SA30C                      | 30.00                              | 33.30                              | 40.70                              | 1                    | 53.5                                 | 9.3                        | 3                             |
| SA30CA                     | 30.00                              | 33.30                              | 36.80                              | 1                    | 48.4                                 | 10.3                       | 3                             |
| SA33C                      | 33.00                              | 36.70                              | 44.90                              | 1                    | 59.0                                 | 8.5                        | 3                             |
| SA33CA                     | 33.00                              | 36.70                              | 40.60                              | 1                    | 53.3                                 | 9.4                        | 3                             |
| SA36C                      | 36.00                              | 40.00                              | 48.90                              | 1                    | 64.3                                 | 7.8                        | 3                             |
| SA36CA                     | 36.00                              | 40.00                              | 44.20                              | 1                    | 58.1                                 | 8.6                        | 3                             |
| SA40C                      | 40.00                              | 44.40                              | 54.30                              | 1                    | 71.4                                 | 7.0                        | 3                             |
| SA40CA                     | 40.00                              | 44.40                              | 49.10                              | 1                    | 64.5                                 | 7.8                        | 3                             |
| SA43C                      | 43.00                              | 47.80                              | 58.40                              | 1                    | 76.6                                 | 6.5                        | 3                             |
| SA43CA                     | 43.00                              | 47.80                              | 52.80                              | 1                    | 69.4                                 | 7.2                        | 3                             |
| SA45C                      | 45.00                              | 50.00                              | 61.10                              | 1                    | 80.3                                 | 6.2                        | 3                             |
| SA45CA                     | 45.00                              | 50.00                              | 55.30                              | 1                    | 72.7                                 | 6.9                        | 3                             |
| SA48C                      | 48.00                              | 53.30                              | 65.10                              | 1                    | 85.5                                 | 5.8                        | 3                             |
| SA48CA                     | 48.00                              | 53.30                              | 58.90                              | 1                    | 77.4                                 | 6.5                        | 3                             |
| SA51C                      | 51.00                              | 56.70                              | 69.30                              | 1                    | 91.1                                 | 5.5                        | 3                             |
| SA51CA                     | 51.00                              | 56.70                              | 62.70                              | 1                    | 82.4                                 | 6.1                        | 3                             |
| SA54C                      | 54.00                              | 60.00                              | 73.30                              | 1                    | 96.3                                 | 5.2                        | 3                             |
| SA54CA                     | 54.00                              | 60.00                              | 66.30                              | 1                    | 87.1                                 | 5.7                        | 3                             |
| SA58C                      | 58.00                              | 64.40                              | 78.70                              | 1                    | 103.0                                | 4.9                        | 3                             |
| SA58CA                     | 58.00                              | 64.40                              | 71.20                              | 1                    | 93.6                                 | 5.3                        | 3                             |
| SA60C                      | 60.00                              | 66.70                              | 81.50                              | 1                    | 107.0                                | 4.7                        | 3                             |
| SA60CA                     | 60.00                              | 66.70                              | 73.70                              | 1                    | 96.8                                 | 5.2                        | 3                             |
| SA64C                      | 64.00                              | 71.10                              | 86.90                              | 1                    | 114.0                                | 4.4                        | 3                             |
| SA64CA                     | 64.00                              | 71.10                              | 78.60                              | 1                    | 103.0                                | 4.9                        | 3                             |
| SA70C                      | 70.00                              | 77.80                              | 95.10                              | 1                    | 125.0                                | 4.0                        | 3                             |
| SA70CA                     | 70.00                              | 77.80                              | 86.00                              | 1                    | 113.0                                | 4.4                        | 3                             |
| SA75C                      | 75.00                              | 83.30                              | 102.00                             | 1                    | 134.0                                | 3.7                        | 3                             |
| SA75CA                     | 75.00                              | 83.30                              | 92.10                              | 1                    | 121.0                                | 4.1                        | 3                             |
| SA78C                      | 78.00                              | 86.70                              | 106.00                             | 1                    | 139.0                                | 3.6                        | 3                             |
| SA78CA                     | 78.00                              | 86.70                              | 95.80                              | 1                    | 126.0                                | 4.0                        | 3                             |
| SA85C                      | 85.00                              | 94.40                              | 115.00                             | 1                    | 151.0                                | 3.3                        | 3                             |
| SA85CA                     | 85.00                              | 94.40                              | 104.00                             | 1                    | 137.0                                | 3.6                        | 3                             |
| SA90C                      | 90.00                              | 100.00                             | 122.00                             | 1                    | 160.0                                | 3.1                        | 3                             |
| SA90CA                     | 90.00                              | 100.00                             | 111.00                             | 1                    | 146.0                                | 3.4                        | 3                             |
| SA100C                     | 100.00                             | 111.00                             | 136.00                             | 1                    | 179.0                                | 2.8                        | 3                             |
| SA100CA                    | 100.00                             | 111.00                             | 123.00                             | 1                    | 162.0                                | 3.1                        | 3                             |
| SA110C                     | 110.00                             | 122.00                             | 149.00                             | 1                    | 196.0                                | 2.6                        | 3                             |
| SA110CA                    | 110.00                             | 122.00                             | 135.00                             | 1                    | 177.0                                | 2.8                        | 3                             |
| SA120C                     | 120.00                             | 133.00                             | 163.00                             | 1                    | 214.0                                | 2.3                        | 3                             |
| SA120CA                    | 120.00                             | 133.00                             | 147.00                             | 1                    | 193.0                                | 2.0                        | 3                             |
| SA130C                     | 130.00                             | 144.00                             | 176.00                             | 1                    | 231.0                                | 2.2                        | 3                             |
| SA130CA                    | 130.00                             | 144.00                             | 159.00                             | 1                    | 209.0                                | 2.4                        | 3                             |
| SA150C                     | 150.00                             | 167.00                             | 204.00                             | 1                    | 269.0                                | 1.9                        | 3                             |
| SA150CA                    | 150.00                             | 167.00                             | 185.00                             | 1                    | 243.0                                | 2.1                        | 3                             |
| SA160C                     | 160.00                             | 178.00                             | 218.00                             | 1                    | 287.0                                | 1.7                        | 3                             |
| SA160CA                    | 160.00                             | 178.00                             | 197.00                             | 1                    | 259.0                                | 1.9                        | 3                             |
| SA170C                     | 170.00                             | 189.00                             | 231.00                             | 1                    | 304.0                                | 1.6                        | 3                             |
| SA170CA                    | 170.00                             | 189.00                             | 209.00                             | 1                    | 275.0                                | 1.8                        | 3                             |

## ORDERING INFORMATION

| Product No.♦     | Package Type | Shipping Quantity |
|------------------|--------------|-------------------|
| SAxx-T3          | DO-15        | 4000/Tape & Reel  |
| <b>SAxx-TB</b>   | DO-15        | 3000/Tape & Box   |
| SAxx             | DO-15        | 1000 Units/Box    |
| SAxxA-T3         | DO-15        | 4000/Tape & Reel  |
| <b>SAxxA-TB</b>  | DO-15        | 3000/Tape & Box   |
| SAxxA            | DO-15        | 1000 Units/Box    |
| SAxxC-T3         | DO-15        | 4000/Tape & Reel  |
| <b>SAxxC-TB</b>  | DO-15        | 3000/Tape & Box   |
| SAxxC            | DO-15        | 1000 Units/Box    |
| SAxxCA-T3        | DO-15        | 4000/Tape & Reel  |
| <b>SAxxCA-TB</b> | DO-15        | 3000/Tape & Box   |
| SAxxCA           | DO-15        | 1000 Units/Box    |

Products listed in **bold** are WTE **Preferred** devices.

♦T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT.** WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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*We power your everyday.*