

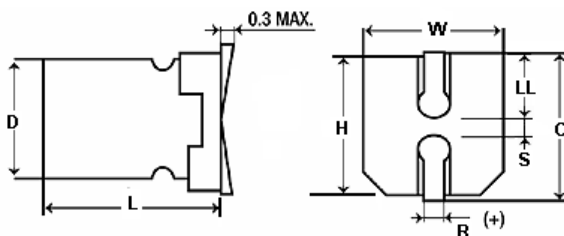
### FEATURES

Small size – Extended Life – Low cost

### APPLICATIONS

Filtering – Bypass – Coupling – Blocking

|                                                          |             |                                                                                                                                                                                      |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
|----------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|-----|----------------------------------|-----|-----|---------|-----|-----|-----|-----|--|
| Operating Temperature Range                              |             | -40°C to +105°C (6.3 to 100WVDC)<br>-25°C to +105°C (160 to 450WVDC)                                                                                                                 |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
| Capacitance Tolerance                                    |             | ±20% at 120 Hz, 20°C                                                                                                                                                                 |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
| Surge voltage                                            | WVDC        | 6.3                                                                                                                                                                                  | 10  | 16   | 25   | 35  | 50                               | 63  | 100 | 160     | 200 | 250 | 400 | 450 |  |
|                                                          | SVDC        | 7.9                                                                                                                                                                                  | 13  | 20   | 32   | 44  | 63                               | 79  | 125 | 200     | 250 | 300 | 450 | 500 |  |
| Dissipation Factor                                       | WVDC        | 6.3                                                                                                                                                                                  | 10  | 16   | 25   | 35  | 50                               | 63  | 100 | 160     | 200 | 250 | 400 | 450 |  |
|                                                          | tan δ       | .3                                                                                                                                                                                   | .24 | .2   | .16  | .14 | .14                              | .18 | .18 | .2      | .2  | .2  | .25 | .25 |  |
|                                                          | D≥12.5      | .35                                                                                                                                                                                  | .3  | .34  | .26  | .22 | .18                              | .14 | .18 | .2      | .2  | .2  | .25 | .25 |  |
| Leakage current                                          |             | 2 Minutes                                                                                                                                                                            |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
|                                                          |             | .01CV or 3μA,Whichever is greater                                                                                                                                                    |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
| Low temperature stability<br>Impedance ratio<br>(120 Hz) | Rated WVDC  | 6.3                                                                                                                                                                                  | 10  | 16   | 25   | 35  | 50                               | 63  | 100 | 160-450 |     |     |     |     |  |
|                                                          | -25°C/+20°C | 4                                                                                                                                                                                    | 3   | 2    | 2    | 2   | 2                                | 2   | 2   | 4       |     |     |     |     |  |
|                                                          | -40°C/+20°C | 8                                                                                                                                                                                    | 8   | 4    | 4    | 3   | 3                                | 3   | 3   | -       |     |     |     |     |  |
| Load Life                                                |             | 2000 hours at 105°C with rated WVDC                                                                                                                                                  |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
|                                                          |             | Capacitance change                                                                                                                                                                   |     |      |      |     | ≤30% of initial measured value   |     |     |         |     |     |     |     |  |
|                                                          |             | Dissipation factor                                                                                                                                                                   |     |      |      |     | ≤300% of maximum specified value |     |     |         |     |     |     |     |  |
|                                                          |             | Leakage current                                                                                                                                                                      |     |      |      |     | ≤100% of maximum specified value |     |     |         |     |     |     |     |  |
| Shelf Life                                               |             | 1000 hours at 105°C with no voltage applied                                                                                                                                          |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
|                                                          |             | Capacitance change                                                                                                                                                                   |     |      |      |     | ≤30% of initial measured value   |     |     |         |     |     |     |     |  |
|                                                          |             | Dissipation factor                                                                                                                                                                   |     |      |      |     | ≤300% of maximum specified value |     |     |         |     |     |     |     |  |
|                                                          |             | Leakage current                                                                                                                                                                      |     |      |      |     | ≤100% of maximum specified value |     |     |         |     |     |     |     |  |
| Resistance to soldering heat                             |             | Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
|                                                          |             | Capacitance change                                                                                                                                                                   |     |      |      |     | ≤10% of initial measured value   |     |     |         |     |     |     |     |  |
|                                                          |             | Dissipation factor                                                                                                                                                                   |     |      |      |     | ≤100% of maximum specified value |     |     |         |     |     |     |     |  |
|                                                          |             | Leakage current                                                                                                                                                                      |     |      |      |     | ≤100% of maximum specified value |     |     |         |     |     |     |     |  |
| Ripple Current Multipliers                               |             | Frequency (Hz)                                                                                                                                                                       |     |      |      |     |                                  |     |     |         |     |     |     |     |  |
|                                                          |             | 50                                                                                                                                                                                   | 120 | 400  | 1k   | 10k | 100k                             |     |     |         |     |     |     |     |  |
|                                                          |             | 0.7                                                                                                                                                                                  | 1.0 | 1.17 | 1.38 | 1.5 | 1.5                              |     |     |         |     |     |     |     |  |



| D    | L           | W±0.2 | H±0.2 | C±0.2 | R       | LL±0.2 | S±0.2 |
|------|-------------|-------|-------|-------|---------|--------|-------|
| 4.0  | 5.4 +/-0.3  | 4.3   | 4.3   | 5.0   | 0.5~0.8 | 1.8    | 1.0   |
| 5.0  | 5.4 +/-0.3  | 5.3   | 5.3   | 6.0   | 0.5~0.8 | 2.1    | 1.4   |
| 6.3  | 5.4 +/-0.3  | 6.6   | 6.6   | 7.3   | 0.5~0.8 | 2.4    | 2.2   |
| 6.3  | 7.7 +/-0.3  | 6.6   | 6.6   | 7.3   | 0.5~0.8 | 2.4    | 2.2   |
| 8.0  | 10.5 +/-0.3 | 8.3   | 8.3   | 9.0   | 0.7~1.0 | 2.9    | 3.1   |
| 10.0 | 10.5 +/-0.3 | 10.3  | 10.3  | 11.0  | 0.7~1.0 | 3.2    | 4.5   |
| 12.5 | 13.5 +/-0.5 | 13.0  | 13.0  | 15.0  | 0.7~1.1 | 4.8    | 4.4   |
| 12.5 | 16.0 +/-0.5 | 13.0  | 13.0  | 15.0  | 0.7~1.1 | 4.8    | 4.4   |

# SVH

+105°C, Long Life, 2000 hours

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (mA)<br>120 Hz,<br>+105°C | Dims DxL (mm) |
|------|------------------|----------------|-------------------------------------|------------------------------------------------------|---------------|
| 6.3  | 4.7              | 475SVH6R3MCR   | 10.82                               | 31                                                   | 4x5.4         |
| 6.3  | 22               | 226SVH6R3MCR   | 22.61                               | 22                                                   | 4x5.4         |
| 6.3  | 33               | 336SVH6R3MCR   | 15.07                               | 29                                                   | 4x5.4         |
| 6.3  | 47               | 476SVH6R3MDR   | 10.58                               | 36                                                   | 5x5.4         |
| 6.3  | 150              | 157SVH6R3MGE   | 3.32                                | 86                                                   | 6.3x5.4       |
| 6.3  | 220              | 227SVH6R3MER   | 2.261                               | 80                                                   | 6.3x5.4       |
| 6.3  | 330              | 337SVH6R3MEL   | 1.507                               | 140                                                  | 6.3x7.7       |
| 6.3  | 680              | 687SVH6R3MFE   | 0.73                                | 340                                                  | 8x10.5        |
| 6.3  | 1500             | 158SVH6R3MGE   | 0.39                                | 460                                                  | 10x10.5       |
| 10   | 33               | 336SVH010MDR   | 12.06                               | 35                                                   | 5x5.4         |
| 10   | 220              | 227SVH010MEL   | 1.8086                              | 120                                                  | 6.3x7.7       |
| 10   | 1000             | 108SVH010MGE   | 0.4                                 | 450                                                  | 10x10.5       |
| 10   | 2200             | 228SVH010MTP   | 0.23                                | 680                                                  | 12.5x13.5     |
| 16   | 22               | 226SVH016MCR   | 12.06                               | 29                                                   | 4x5.4         |
| 16   | 33               | 336SVH016MDR   | 8.04                                | 40                                                   | 5x5.4         |
| 16   | 47               | 476SVH016MDR   | 5.6438                              | 42                                                   | 5x5.4         |
| 16   | 100              | 107SVH016MER   | 3.32                                | 60                                                   | 6.3x5.4       |
| 16   | 220              | 227SVH016MEL   | 1.51                                | 105                                                  | 6.3x7.7       |
| 16   | 470              | 477SVH016MFE   | 0.71                                | 240                                                  | 8x10.5        |
| 25   | 10               | 106SVH025MCR   | 26.53                               | 13                                                   | 4x5.4         |
| 25   | 22               | 226SVH025MDR   | 12.06                               | 23                                                   | 5x5.4         |
| 25   | 33               | 336SVH025MER   | 8.04                                | 38                                                   | 6.3x5.4       |
| 25   | 47               | 476SVH025MER   | 5.64                                | 48                                                   | 6.3x5.4       |
| 25   | 100              | 107SVH025MEL   | 2.65                                | 100                                                  | 6.3x7.7       |
| 25   | 100              | 107SVH025MEL   | 2.6526                              | 100                                                  | 6.3x7.7       |
| 25   | 150              | 157SVH025MEL   | 1.77                                | 91                                                   | 6.3x7.7       |
| 25   | 220              | 227SVH025MFE   | 1.21                                | 240                                                  | 8x10.5        |
| 25   | 330              | 337SVH025MFE   | 0.8                                 | 320                                                  | 8x10.5        |
| 25   | 470              | 477SVH025MGE   | 0.56                                | 450                                                  | 10x10.5       |
| 25   | 680              | 687SVH025MGE   | 0.39                                | 490                                                  | 10x10.5       |
| 25   | 1500             | 158SVH025MTBW  | 0.29                                | 590                                                  | 12.5x16       |
| 35   | 4.7              | 475SVH035MCR   | 49.38                               | 16                                                   | 4x5.4         |
| 35   | 6.8              | 685SVH035MCR   | 31.13                               | 25                                                   | 4x5.4         |
| 35   | 22               | 226SVH035MER   | 10.55                               | 44                                                   | 6.3x5.4       |
| 35   | 100              | 107SVH035MEL   | 2.65                                | 100                                                  | 6.3x7.7       |
| 35   | 150              | 157SVH035MFE   | 1.55                                | 260                                                  | 8x10.5        |
| 35   | 220              | 227SVH035MFE   | 1.5071                              | 170                                                  | 8x10.5        |
| 35   | 330              | 337SVH035MGE   | 0.7                                 | 410                                                  | 10x10.5       |
| 35   | 470              | 477SVH035MTP   | 0.78                                | 520                                                  | 12.5x13.5     |
| 35   | 680              | 687SVH035MTP   | 0.54                                | 590                                                  | 12.5x13.5     |
| 50   | 1                | 105SVH050MCR   | 232.1                               | 6.3                                                  | 4x5.4         |
| 50   | 2.2              | 225SVH050MCR   | 105.5                               | 11                                                   | 4x5.4         |
| 50   | 3.3              | 335SVH050MCR   | 70.33                               | 14                                                   | 4x5.4         |
| 50   | 4.7              | 475SVH050MDR   | 49.38                               | 19                                                   | 5x5.4         |
| 50   | 10               | 106SVH050MER   | 23.21                               | 30                                                   | 6.3x5.4       |
| 50   | 22               | 226SVH050MEL   | 10.55                               | 51                                                   | 6.3x7.7       |
| 50   | 33               | 336SVH050MEL   | 7.03                                | 60                                                   | 6.3x7.7       |
| 50   | 47               | 476SVH050MEL   | 4.94                                | 63                                                   | 6.3x7.7       |
| 50   | 100              | 107SVH050MFE   | 2.82                                | 230                                                  | 8x10.5        |
| 50   | 150              | 157SVH050MGE   | 1.55                                | 250                                                  | 10x10.5       |
| 50   | 220              | 227SVH050MGE   | 1.06                                | 375                                                  | 10x10.5       |
| 50   | 330              | 337SVH050MTP   | 0.9043                              | 490                                                  | 12.5x13.5     |
| 50   | 330              | 337SVH050MTP   | 0.9043                              | 490                                                  | 12.5x13.5     |
| 50   | 470              | 477SVH050MTBW  | 0.5644                              | 550                                                  | 12.5x16       |
| 63   | 47               | 476SVH063MFE   | 6.35                                | 170                                                  | 8x10.5        |
| 63   | 100              | 107SVH063MGE   | 2.98                                | 340                                                  | 10x10.5       |
| 63   | 150              | 157SVH063MGE   | 1.99                                | 360                                                  | 10x10.5       |
| 63   | 220              | 227SVH063MTP   | 1.3564                              | 470                                                  | 12.5x13.5     |

# SVH

+105°C, Long Life, 2000 hours

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (mA)<br>120 Hz,<br>+105°C | Dims DxL (mm) |
|------|------------------|----------------|-------------------------------------|------------------------------------------------------|---------------|
| 100  | 22               | 226SVH100MFE   | 13.56                               | 100                                                  | 8x10.5        |
| 100  | 33               | 336SVH100MFE   | 9.04                                | 120                                                  | 8x10.5        |
| 100  | 33               | 336SVH100MGE   | 9.04                                | 150                                                  | 10x10.5       |
| 100  | 47               | 476SVH100MFE   | 6.35                                | 170                                                  | 8x10.5        |
| 100  | 47               | 476SVH100MGE   | 6.35                                | 250                                                  | 10x10.5       |
| 100  | 47               | 476SVH100MTP   | 6.3493                              | 250                                                  | 12.5x13.5     |
| 100  | 100              | 107SVH100MTP   | 2.98                                | 300                                                  | 12.5x13.5     |
| 160  | 33               | 336SVH160MTP   | 10.0477                             | 95                                                   | 12.5x13.5     |
| 200  | 10               | 106SVH200MTP   | 33.1573                             | 80                                                   | 12.5x13.5     |
| 200  | 22               | 226SVH200MTBW  | 15.0715                             | 110                                                  | 12.5x16       |
| 200  | 33               | 336SVH200MTBW  | 10.0477                             | 120                                                  | 12.5x16       |
| 250  | 22               | 226SVH250MTP   | 15.0715                             | 105                                                  | 12.5x13.5     |
| 400  | 10               | 106SVH400MTP   | 41.4466                             | 50                                                   | 12.5x13.5     |
| 450  | 3.3              | 335SVH450MTP   | 125.6                               | 40                                                   | 12.5x13.5     |
| 450  | 4.7              | 475SVH450MTP   | 88.1843                             | 45                                                   | 12.5x13.5     |
| 450  | 10               | 106SVH450MTBW  | 41.4466                             | 75                                                   | 12.5x16       |



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