

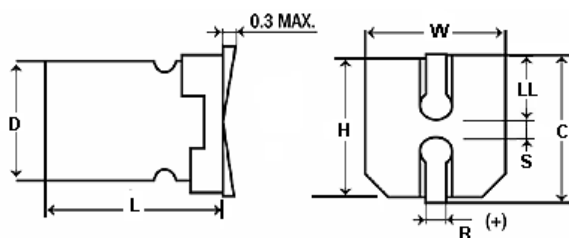
### FEATURES

Small size - Extended Life - Low cost

### APPLICATIONS

Filtering - Bypass - Coupling - Blocking

|   |   |  |            |           |            |             |           |           |            |                |            |            |            |            |  |
|---|---|--|------------|-----------|------------|-------------|-----------|-----------|------------|----------------|------------|------------|------------|------------|--|
| <b>Operating Temperature Range</b>                        |   | <b>-40°C to +105°C (6.3 to 100WVDC)<br/>-25°C to +105°C (160 to 450WVDC)</b> |            |           |            |             |           |           |            |                |            |            |            |            |  |
| <b>Capacitance Tolerance</b>                              |   | <b>±20% at 120 Hz, 20°C</b>  |            |           |            |             |           |           |            |                |            |            |            |            |  |
| <b>Surge voltage</b>                                      | <b>WVDC</b>   | <b>6.3</b>   | <b>10</b>  | <b>16</b> | <b>25</b>  | <b>35</b>   | <b>50</b> | <b>63</b> | <b>100</b> | <b>160</b>     | <b>200</b> | <b>250</b> | <b>400</b> | <b>450</b> |  |
|   | <b>SVDC</b>   | 7.9  | 13         | 20        | 32         | 44          | 63        | 79        | 125        | 200            | 250        | 300        | 450        | 500        |  |
| <b>Dissipation Factor</b>                                 | <b>WVDC</b>   | <b>6.3</b>   | <b>10</b>  | <b>16</b> | <b>25</b>  | <b>35</b>   | <b>50</b> | <b>63</b> | <b>100</b> | <b>160</b>     | <b>200</b> | <b>250</b> | <b>400</b> | <b>450</b> |  |
|   | <b>tan δ</b>  | .3   | .24        | .2        | .16        | .14         | .14       | .18       | .18        | .2             | .2         | .2         | .25        | .25        |  |
|   | <b>D≥12.5</b>   | .35  | .3         | .34       | .26        | .22         | .18       | .14       | .18        | .2             | .2         | .2         | .25        | .25        |  |
| <b>Leakage current</b>                                    |   | <b>2 Minutes</b><br>.01CV or 3µA, Whichever is greater                       |            |           |            |             |           |           |            |                |            |            |            |            |  |
| <b>Low temperature stability Impedance ratio (120 Hz)</b> | <b>Rated WVDC</b>   | <b>6.3</b>   | <b>10</b>  | <b>16</b> | <b>25</b>  | <b>35</b>   | <b>50</b> | <b>63</b> | <b>100</b> | <b>160-450</b> |            |            |            |            |  |
|   | <b>-25°C/+20°C</b>  | 4  | 3          | 2         | 2          | 2           | 2         | 2         | 2          | 4              |            |            |            |            |  |
|   | <b>-40°C/+20°C</b>  | 8  | 8          | 4         | 4          | 3           | 3         | 3         | 3          | -              |            |            |            |            |  |
| <b>Load Life</b>  | <b>2000 hours at 105°C with rated WVDC</b>  |  |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Capacitance change</b>   | ≤30% of initial measured value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Dissipation factor</b>   | ≤300% of maximum specified value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Leakage current</b>  | ≤100% of maximum specified value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
| <b>Shelf Life</b>   | <b>1000 hours at 105°C with no voltage applied</b>  |  |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Capacitance change</b>   | ≤30% of initial measured value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Dissipation factor</b>   | ≤300% of maximum specified value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Leakage current</b>  | ≤100% of maximum specified value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
| <b>Resistance to soldering heat</b>                       | <b>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</b> |  |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Capacitance change</b>   | ≤10% of initial measured value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Dissipation factor</b>   | ≤100% of maximum specified value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>Leakage current</b>  | ≤100% of maximum specified value   |            |           |            |             |           |           |            |                |            |            |            |            |  |
| <b>Ripple Current Multipliers</b>                         | <b>Frequency (Hz)</b>   |  |            |           |            |             |           |           |            |                |            |            |            |            |  |
|   | <b>50</b>   | <b>120</b>   | <b>400</b> | <b>1k</b> | <b>10k</b> | <b>100k</b> |           |           |            |                |            |            |            |            |  |
|   | 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 DxDL (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               | <a href="#">226SVH100MFE</a>  | 13.56                               | 100  | 8x10.5        |
| 100  | 33               | <a href="#">336SVH100MFE</a>  | 9.04                                | 120  | 8x10.5        |
| 100  | 33               | <a href="#">336SVH100MGE</a>  | 9.04                                | 150  | 10x10.5       |
| 100  | 47               | <a href="#">476SVH100MFE</a>  | 6.35                                | 170  | 8x10.5        |
| 100  | 47               | <a href="#">476SVH100MGE</a>  | 6.35                                | 250  | 10x10.5       |
| 100  | 47               | <a href="#">476SVH100MTP</a>  | 6.3493                              | 250  | 12.5x13.5     |
| 100  | 100              | <a href="#">107SVH100MTP</a>  | 2.98                                | 300  | 12.5x13.5     |
| 160  | 33               | <a href="#">336SVH160MTP</a>  | 10.0477                             | 95   | 12.5x13.5     |
| 200  | 10               | <a href="#">106SVH200MTP</a>  | 33.1573                             | 80   | 12.5x13.5     |
| 200  | 22               | <a href="#">226SVH200MTBW</a> | 15.0715                             | 110  | 12.5x16       |
| 200  | 33               | <a href="#">336SVH200MTBW</a> | 10.0477                             | 120  | 12.5x16       |
| 250  | 22               | <a href="#">226SVH250MTP</a>  | 15.0715                             | 105  | 12.5x13.5     |
| 400  | 10               | <a href="#">106SVH400MTP</a>  | 41.4466                             | 50   | 12.5x13.5     |
| 450  | 3.3              | <a href="#">335SVH450MTP</a>  | 125.6                               | 40   | 12.5x13.5     |
| 450  | 4.7              | <a href="#">475SVH450MTP</a>  | 88.1843                             | 45   | 12.5x13.5     |
| 450  | 10               | <a href="#">106SVH450MTBW</a> | 41.4466                             | 75   | 12.5x16       |

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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