



## SVP series characteristics list

| Size code | Part number | Rated voltage (V) | Rated capacitance (μF) | ESR(mΩ) (max)<br>100kHz to 300kHz/20°C | Rated ripple current<br>100kHz (mA <sub>rms</sub> ) at 105°C | DF (% max) | Leakage current (μA) (max)<br>After 2 minutes |
|-----------|-------------|-------------------|------------------------|----------------------------------------|--------------------------------------------------------------|------------|-----------------------------------------------|
| A5        | 16SVP3R3M   | 16                | 3.3                    | 260                                    | 660                                                          | 7.0        | 26.4                                          |
|           | 10SVP4R7M   | 10                | 4.7                    | 240                                    | 670                                                          | 8.0        | 23.5                                          |
|           | 10SVP6R8M   | 10                | 6.8                    | 240                                    | 670                                                          | 9.0        | 34                                            |
|           | 10SVP10M    | 10                | 10                     | 220                                    | 700                                                          | 10         | 50                                            |
|           | 10SVP15M    | 10                | 15                     | 200                                    | 740                                                          | 10         | 75                                            |
|           | 6SVP22M     | 6.3               | 22                     | 200                                    | 740                                                          | 12         | 69.3                                          |
|           | 4SVP33M     | 4.0               | 33                     | 200                                    | 740                                                          | 15         | 66                                            |
| B6        | 20SVP10M    | 20                | 10                     | 120                                    | 1020                                                         | 10         | 100                                           |
|           | 16SVP15M    | 16                | 15                     | 120                                    | 1020                                                         | 10         | 120                                           |
|           | 16SVP22M    | 16                | 22                     | 90                                     | 1060                                                         | 10         | 176                                           |
|           | 10SVP33M    | 10                | 33                     | 70                                     | 1100                                                         | 12         | 165                                           |
|           | 6SVP47M     | 6.3               | 47                     | 70                                     | 1100                                                         | 12         | 148                                           |
|           | 4SVP39M     | 4.0               | 39                     | 70                                     | 1100                                                         | 12         | 78                                            |
|           | 4SVP68M     | 4.0               | 68                     | 60                                     | 1400                                                         | 12         | 136                                           |
| C6        | 20SVP22M    | 20                | 22                     | 60                                     | 1450                                                         | 10         | 88                                            |
|           | 20SVP27M    | 20                | 27                     | 60                                     | 1450                                                         | 10         | 108                                           |
|           | 16SVP39M    | 16                | 39                     | 50                                     | 1620                                                         | 10         | 125                                           |
|           | 10SVP47M    | 10                | 47                     | 50                                     | 1620                                                         | 12         | 94                                            |
|           | 10SVP56M    | 10                | 56                     | 45                                     | 1700                                                         | 12         | 112                                           |
|           | 6SVP82M     | 6.3               | 82                     | 45                                     | 1700                                                         | 12         | 103                                           |
|           | 6SVP100M    | 6.3               | 100                    | 40                                     | 1810                                                         | 12         | 126                                           |
|           | 6SVP120MV   | 6.3               | 120                    | 17                                     | 2780                                                         | 12         | 151                                           |
|           | 4SVP150MX   | 4.0               | 150                    | 40                                     | 1810                                                         | 12         | 120                                           |
|           | 2R5SVP220M  | 2.5               | 220                    | 23                                     | 2390                                                         | 12         | 110                                           |
| E7        | 20SVP33M    | 20                | 33                     | 45                                     | 1890                                                         | 12         | 132                                           |
|           | 20SVP47M    | 20                | 47                     | 45                                     | 1890                                                         | 12         | 188                                           |
|           | 16SVP56M    | 16                | 56                     | 45                                     | 1890                                                         | 12         | 179                                           |
|           | 16SVP82M    | 16                | 82                     | 40                                     | 2120                                                         | 12         | 262                                           |
|           | 10SVP120M   | 10                | 120                    | 35                                     | 2560                                                         | 12         | 240                                           |
|           | 10SVP150MX  | 10                | 150                    | 35                                     | 2560                                                         | 12         | 300                                           |
|           | 6SVP220MX   | 6.3               | 220                    | 35                                     | 2560                                                         | 12         | 277                                           |
|           | 4SVP330M    | 4.0               | 330                    | 35                                     | 2560                                                         | 12         | 264                                           |
| F8        | 20SVP56M    | 20                | 56                     | 40                                     | 2400                                                         | 12         | 224                                           |
|           | 20SVP68M    | 20                | 68                     | 40                                     | 2400                                                         | 12         | 272                                           |
|           | 16SVP100M   | 16                | 100                    | 35                                     | 2670                                                         | 12         | 320                                           |
|           | 16SVP150M   | 16                | 150                    | 30                                     | 3020                                                         | 12         | 480                                           |
|           | 16SVP180MX  | 16                | 180                    | 30                                     | 3020                                                         | 12         | 576                                           |
|           | 10SVP150M   | 10                | 150                    | 30                                     | 3020                                                         | 12         | 300                                           |
|           | 10SVP270M   | 10                | 270                    | 25                                     | 3700                                                         | 12         | 540                                           |
|           | 10SVP330MX  | 10                | 330                    | 25                                     | 3700                                                         | 12         | 660                                           |
|           | 6SVP220M    | 6.3               | 220                    | 25                                     | 3700                                                         | 12         | 277                                           |
|           | 6SVP330M    | 6.3               | 330                    | 25                                     | 3700                                                         | 12         | 416                                           |
|           | 6SVP470MX   | 6.3               | 470                    | 25                                     | 3700                                                         | 12         | 592                                           |
|           | 4SVP680M    | 4.0               | 680                    | 25                                     | 3700                                                         | 12         | 544                                           |
| E12       | 20SVP100M   | 20                | 100                    | 24                                     | 3320                                                         | 15         | 400                                           |
|           | 16SVP180M   | 16                | 180                    | 20                                     | 3640                                                         | 15         | 576                                           |
|           | 10SVP330M   | 10                | 330                    | 17                                     | 3950                                                         | 15         | 660                                           |
|           | 6SVP470M    | 6.3               | 470                    | 15                                     | 4210                                                         | 15         | 592                                           |
|           | 4SVP560M    | 4.0               | 560                    | 13                                     | 4520                                                         | 15         | 448                                           |
| F12       | 2R5SVP680M  | 2.5               | 680                    | 13                                     | 4520                                                         | 15         | 340                                           |
|           | 20SVP150M   | 20                | 150                    | 20                                     | 4320                                                         | 15         | 600                                           |
|           | 16SVP330M   | 16                | 330                    | 16                                     | 4720                                                         | 15         | 792                                           |
|           | 10SVP560M   | 10                | 560                    | 13                                     | 5230                                                         | 15         | 840                                           |
|           | 6SVP820M    | 6.3               | 820                    | 12                                     | 5440                                                         | 15         | 775                                           |
|           | 4SVP1200M   | 4.0               | 1200                   | 12                                     | 5440                                                         | 18         | 960                                           |
|           | 2R5SVP1500M | 2.5               | 1500                   | 12                                     | 5440                                                         | 18         | 750                                           |

## Frequency coefficient for ripple current

| Frequency   | 120Hz ≤ f < 1kHz | 1kHz ≤ f < 10kHz | 10kHz ≤ f < 100kHz | 100kHz ≤ f ≤ 500kHz |
|-------------|------------------|------------------|--------------------|---------------------|
| Coefficient | 0.05             | 0.3              | 0.7                | 1                   |