

## Standard Series Specifications—5mm Devices

**Table V4 - Rating and Characteristics**

| Part Number | Varistor Voltage<br>V@1.0mA |           | Maximum Allowance Voltage |           | Maximum Clamping Voltage | Maximum Surge Current<br>(8x20 $\mu$ s) |                | Rated WaIage<br>(W) | Energy<br>(10x1000 $\mu$ s)<br>(J) | Capacitance<br>(Typical)<br>(pF) | Certification† |
|-------------|-----------------------------|-----------|---------------------------|-----------|--------------------------|---|----------------|---------------------|------------------------------------|----------------------------------|----------------|
|             | DC<br>(V)                   | Tolerance | AC<br>(V <sub>RMS</sub> ) | DC<br>(V) | V@5A<br>(V)              | 1 Time<br>(A)                           | 2 Times<br>(A) |                     |                                    |                                  |                |
| ROV05-180M  | 18                          | ±20%      | 11                        | 14        | 40*                      | 100                                     | 50             | 0.01                | 0.6                                | 1121                             | ● ■            |
| ROV05-220L  | 22                          | ±15%      | 14                        | 18        | 48*                      | 100                                     | 50             | 0.01                | 0.7                                | 1233                             | ● ■            |
| ROV05-270K  | 27                          | ±10%      | 17                        | 22        | 60*                      | 100                                     | 50             | 0.01                | 0.9                                | 1073                             | ● ■            |
| ROV05-330K  | 33                          | ±10%      | 20                        | 26        | 73*                      | 100                                     | 50             | 0.01                | 1.1                                | 834                              | ● ■            |
| ROV05-390K  | 39                          | ±10%      | 25                        | 31        | 86*                      | 100                                     | 50             | 0.01                | 1.2                                | 877                              | ● ■            |
| ROV05-470K  | 47                          | ±10%      | 30                        | 38        | 104*                     | 100                                     | 50             | 0.01                | 1.5                                | 715                              | ● ■            |
| ROV05-560K  | 56                          | ±10%      | 35                        | 45        | 123*                     | 100                                     | 50             | 0.01                | 1.8                                | 643                              | ● ■            |
| ROV05-680K  | 68                          | ±10%      | 40                        | 56        | 150*                     | 100                                     | 50             | 0.01                | 2.1                                | 501                              | ● ■            |
| ROV05-820K  | 82                          | ±10%      | 50                        | 65        | 145                      | 400                                     | 200            | 0.10                | 2.8                                | 269                              | ● ■            |
| ROV05-101K  | 100                         | ±10%      | 60                        | 85        | 175                      | 400                                     | 200            | 0.10                | 3.5                                | 263                              | ● ■            |
| ROV05-121K  | 120                         | ±10%      | 75                        | 100       | 210                      | 400                                     | 200            | 0.10                | 4.0                                | 180                              | ● ■            |
| ROV05-151K  | 150                         | ±10%      | 95                        | 125       | 260                      | 400                                     | 200            | 0.10                | 5.5                                | 180                              | ● ■            |
| ROV05-181K  | 180                         | ±10%      | 115                       | 150       | 320                      | 400                                     | 200            | 0.10                | 6.5                                | 95                               | ● ■            |
| ROV05-201K  | 200                         | ±10%      | 130                       | 170       | 355                      | 400                                     | 200            | 0.10                | 7.1                                | 85                               | ◆ ● ▲ ■        |
| ROV05-221K  | 220                         | ±10%      | 140                       | 180       | 380                      | 400                                     | 200            | 0.10                | 7.8                                | 80                               | ◆ ● ▲ ■        |
| ROV05-241K  | 240                         | ±10%      | 150                       | 200       | 415                      | 400                                     | 200            | 0.10                | 8.4                                | 74                               | ◆ ● ▲ ■        |
| ROV05-271K  | 270                         | ±10%      | 175                       | 225       | 475                      | 400                                     | 200            | 0.10                | 9.9                                | 69                               | ◆ ● ▲ ■        |
| ROV05-301K  | 300                         | ±10%      | 195                       | 250       | 525                      | 400                                     | 200            | 0.10                | 10.5                               | 65                               | ◆ ● ▲ ■        |
| ROV05-331K  | 330                         | ±10%      | 210                       | 275       | 575                      | 400                                     | 200            | 0.10                | 11.5                               | 60                               | ◆ ● ▲ ■        |
| ROV05-361K  | 360                         | ±10%      | 230                       | 300       | 620                      | 400                                     | 200            | 0.10                | 13.0                               | 69                               | ◆ ● ▲ ■        |
| ROV05-391K  | 390                         | ±10%      | 250                       | 320       | 675                      | 400                                     | 200            | 0.10                | 15.0                               | 56                               | ◆ ● ▲ ■        |
| ROV05-431K  | 430                         | ±10%      | 275                       | 350       | 745                      | 400                                     | 200            | 0.10                | 16.5                               | 47                               | ◆ ● ▲ ■        |
| ROV05-471K  | 470                         | ±10%      | 300                       | 385       | 810                      | 400                                     | 200            | 0.10                | 17.5                               | 50                               | ◆ ● ▲ ■        |
| ROV05-511K  | 510                         | ±10%      | 320                       | 418       | 880                      | 400                                     | 200            | 0.10                | 18.5                               | 50                               | ◆ ● ▲ ■        |
| ROV05-561K  | 560                         | ±10%      | 350                       | 460       | 940                      | 400                                     | 200            | 0.10                | 19.5                               | 50                               | ◆ ● ▲ ■        |
| ROV05-621K  | 620                         | ±10%      | 385                       | 505       | 1050                     | 400                                     | 200            | 0.10                | 20.5                               | 50                               | ◆ ● ▲ ■        |
| ROV05-681K  | 680                         | ±10%      | 420                       | 560       | 1150                     | 400                                     | 200            | 0.10                | 21.5                               | 43                               | ◆ ● ▲ ■        |
| ROV05-751K  | 750                         | ±10%      | 460                       | 615       | 1290                     | 400                                     | 200            | 0.10                | 22.5                               | 45                               | ◆ ● ▲ ■        |

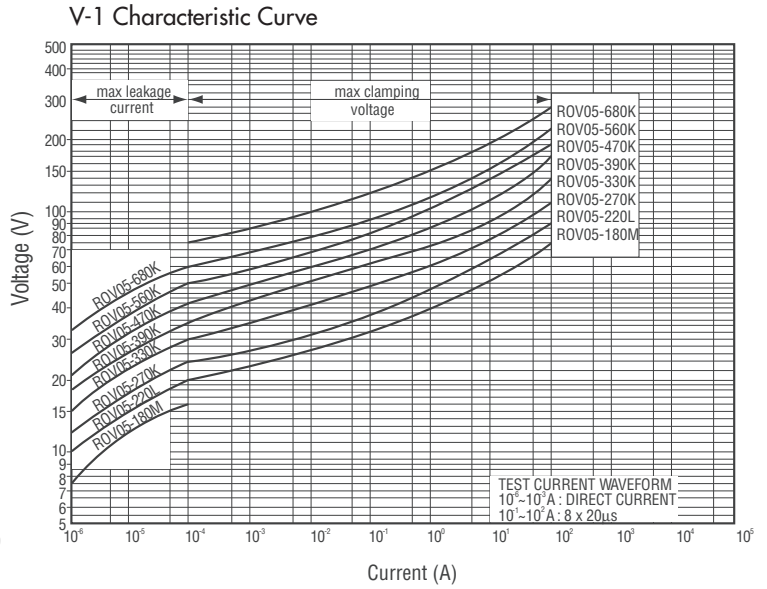
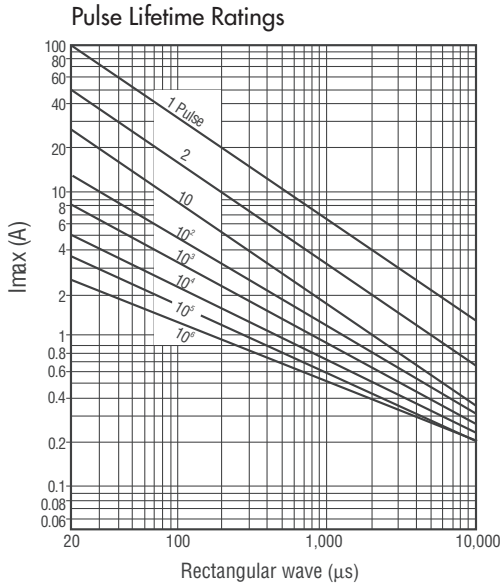
\*The clamping voltages from 180M to 680K are tested at 1A current.

### † Certification

| Standard    | UL1414‡                    | UL1449 (2nd Edition)‡               | CSA  | VDE                                       |
|-------------|----------------------------|-------------------------------------|--|---|
| Title       | Across-the-Line Components | Transient Voltage Surge Suppressors | Accessories and Parts for Electronic Equipment | Varistors for Use in Electronic Equipment |
| Symbols     | ◆                          | ●                                   | ▲  | ■   |
| File Number | E223034                    | E223033                             | 220978   | 40006997                                  |

‡ For UL 1449 (2nd Edition), the maximum clamping voltage is measured at 500A.

**Figure V3 - ROV05-180M~ROV05-680K**



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**Figure V4 - ROV05-820K~ROV05-471K**

