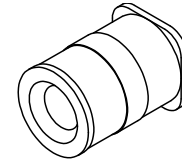


## FEATURES

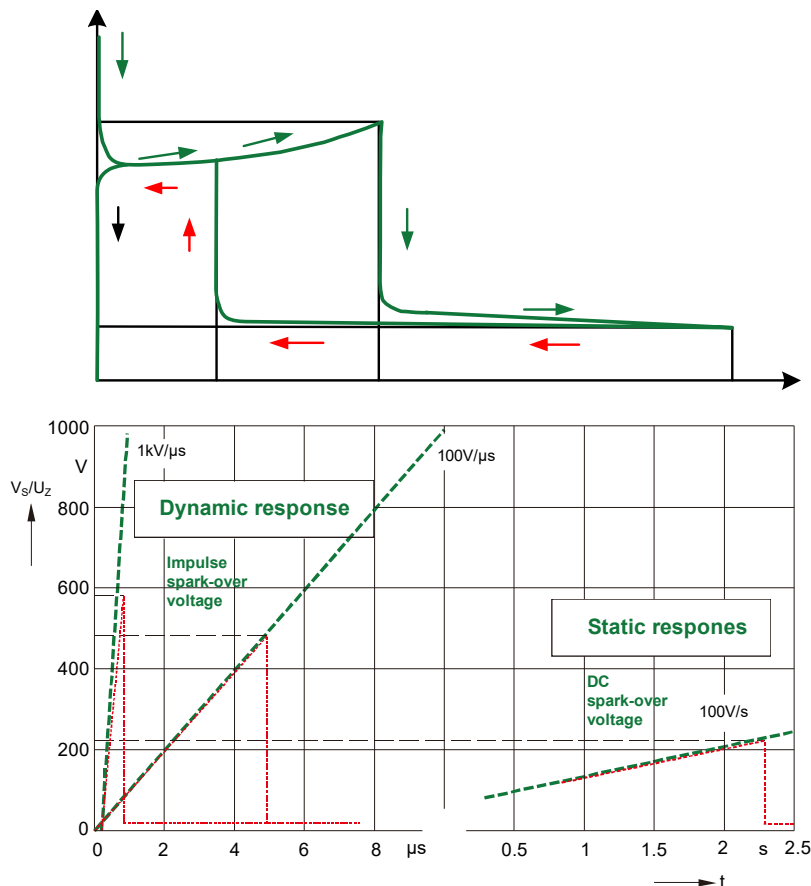
- ◆ Excellent transient voltage suppression
- ◆ High discharge current capability
- ◆ Wide range of voltage ratings
- ◆ Symmetrical V-I characteristics (Non-Polarity)
- ◆ Fast response
- ◆ Steady operation for repeating surge
- ◆ Low temperature coefficient
- ◆ High reliability



## APPLICATIONS

- ◆ Broadband equipment
- ◆ CATV/Broadband equipment
- ◆ Data lines and Ethernet (up to 10GbE)
- ◆ ADSL equipment, including ADSL2, VSDL, VDSL2 30a bandplan compatible
- ◆ xDSL equipment
- ◆ IAD (Integrated Access Device)
- ◆ Set Top Box (STB)
- ◆ General telecom equipment
- ◆ Embedded Multimedia Terminal Adapter (EMTA)
- ◆ RF Connector
- ◆ Multimedia over Coax Alliance (MoCA)
- ◆ Base Station RF antenna transmitter
- ◆ G.Fast 106MHz and 212 MHz band plans compatible
- ◆ Aerospace and Automotive
- ◆ Primary protection module

## CHARACTERISTICS



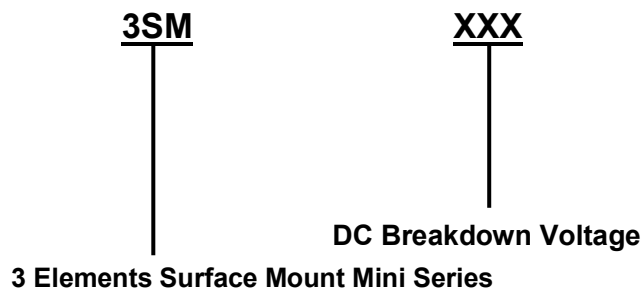
## ELECTRICAL CHARACTERISTICS

| Part Number | DC Breakdown Voltage | Maximum Impulse Breakdown Voltage |         | Maximum Impulse Discharge Current |       | Normal Alternating Discharge Current |           | Impulse Life (10/1000µs) | DC Holdover Voltage | Minimum Insulation Resistance | Maximum Capacitance |
|-------------|----------------------|-----------------------------------|---------|-----------------------------------|-------|--------------------------------------|-----------|--------------------------|---------------------|-------------------------------|---------------------|
|             |                      | V                                 |         | KA@8/20µs                         |       | A                                    |           |                          |                     |                               |                     |
|             |                      | 100V/s                            | 100V/µs | 1000V/µs                          | 1time | 10time                               | 50Hz,1sec |                          |                     |                               |                     |
| 3SM75       | 75±20%               | 600                               | 700     | 10                                | 5     | 5                                    | 20        | 300                      | < 150ms             | 1                             | 2                   |
| 3SM90       | 90±20%               | 500                               | 600     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM120      | 120±20%              | 500                               | 600     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM150      | 150±20%              | 500                               | 600     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM200      | 200±20%              | 600                               | 700     | 15                                | 10    | 10                                   | 60        |                          |                     |                               |                     |
| 3SM230      | 230±20%              | 600                               | 700     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM250      | 250±20%              | 600                               | 700     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM300      | 300±20%              | 650                               | 750     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM350      | 350±20%              | 650                               | 850     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM400      | 400±20%              | 700                               | 900     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM420      | 420±20%              | 700                               | 900     |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM470      | 470±20%              | 800                               | 950     | 10                                | 5     | 5                                    | 30        |                          |                     |                               |                     |
| 3SM600      | 600±20%              | 900                               | 1100    |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM800      | 800±20%              | 1150                              | 1400    |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM1000     | 1000±20%             | 1400                              | 1700    |                                   |       |                                      |           |                          |                     |                               |                     |
| 3SM1100     | 1100±20%             | 1450                              | 1750    |                                   |       |                                      |           |                          |                     |                               |                     |

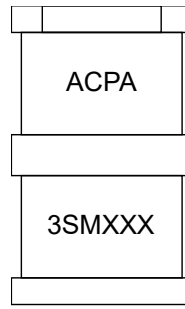
- Note: 1. UL497B Recognized, File E223314  
 2. 3SM800 ~ 1100 Voltage type higher than 800V~1100V are pending UL1449 4th recognition  
 3. Insulation resistance test condition:

| DC Breakdown Voltage | DC Measuring Voltage |
|----------------------|----------------------|
| 70-150V              | 50V                  |
| 151-400V             | 100V                 |
| 401-1000V            | 250V                 |
| 1001-2000V           | 500V                 |
| > 2001V              | 1000V                |

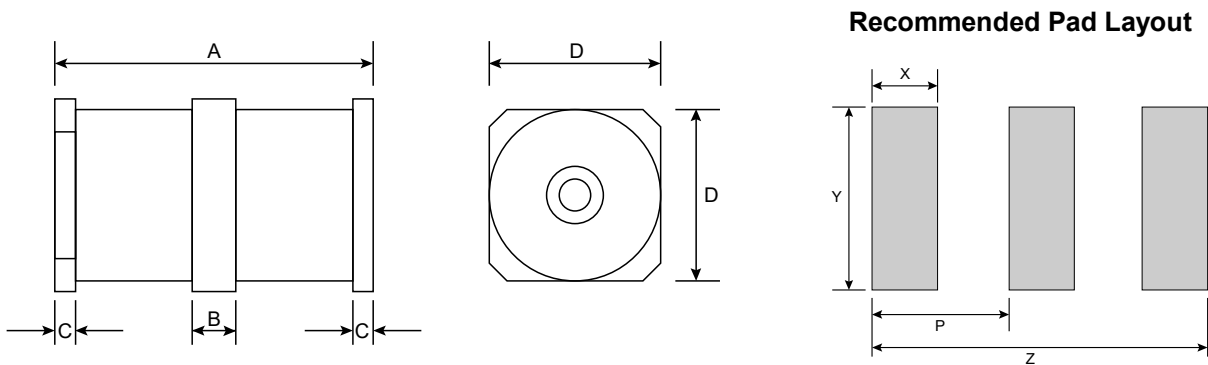
## PART NUMBER SYSTEM



**MARKING**



**DIMENSIONS (unit: mm)**



| DIM | Millimeters |      |      | Inch   |        |        |
|-----|-------------|------|------|--------|--------|--------|
|     | Min         | Typ  | Max  | Min    | Typ    | Max    |
| A   | 6.90        | 7.20 | 7.50 | 0.2717 | 0.2835 | 0.2953 |
| B   | -           | 1.50 | -    | -      | 0.0591 | -      |
| C   | -           | 0.40 | -    | -      | 0.0157 | -      |
| D   | 4.90        | 5.00 | 5.10 | 0.1929 | 0.1969 | 0.2008 |
| P   | -           | 3.30 | -    | -      | 0.1299 | -      |
| X   | -           | 1.60 | -    | -      | 0.0630 | -      |
| Y   | -           | 5.60 | -    | -      | 0.2205 | -      |
| Z   | -           | 8.20 | -    | -      | 0.3228 | -      |

**PACKAGING**

| Part Number | Quantity | Packaging |
|-------------|----------|-----------|
| 3SMXXX      | 900pcs   | Reel      |