

## HA Series (For High Surge Protection) of Surface Mount Multilayer

### Features:

- Fast Response < 0.5 ns
- Low Capacitance
- Low Clamping Voltage and High Energy Absorption

### Applications:

- Telecommunications
- Automotive Systems
- Data Systems
- Power Supplies

| Part Number       | Working Voltage (max)  |        | Breakdown Voltage | Peak Current (max) | Clamping Voltage (max) |     | Energy Absorption (max) | Typical Capacitance |
|-------------------|------------------------|--------|-------------------|--------------------|------------------------|-----|-------------------------|---------------------|
|                   | AC (V <sub>RMS</sub> ) | DC (V) | 1 mA (V)          | 8/20 $\mu$ s (A)   | (A)                    | (V) | 10/1000 $\mu$ s (J)     | 1 KHz (pF)          |
| MLV1206HA014V0200 | 11                     | 14     | 18 (15.3~20.7)    | 200                | 1                      | 30  | 0.5                     | 1200                |
| MLV1206HA018V0200 | 14                     | 18     | 24 (21.6~27.0)    | 200                | 1                      | 39  | 0.5                     | 780                 |
| MLV1206HA022V0200 | 17                     | 22     | 27 (24.3~29.8)    | 200                | 1                      | 44  | 0.7                     | 750                 |
| MLV1206HA026V0200 | 20                     | 26     | 33 (29.7~36.3)    | 200                | 1                      | 54  | 1.0                     | 700                 |
| MLV1206HA030V0200 | 25                     | 30     | 39 (35.1~42.9)    | 200                | 1                      | 65  | 1.0                     | 510                 |
| MLV1206HA038V0200 | 30                     | 38     | 47 (42.3~51.7)    | 200                | 1                      | 77  | 1.1                     | 440                 |
| MLV1210HA014V0400 | 11                     | 14     | 18 (15.3~20.7)    | 400                | 2.5                    | 30  | 1.2                     | 2000                |
| MLV1210HA018V0400 | 14                     | 18     | 24 (21.6~27.0)    | 400                | 2.5                    | 39  | 1.4                     | 1600                |
| MLV1210HA022V0400 | 17                     | 22     | 27 (24.3~29.8)    | 400                | 2.5                    | 44  | 1.7                     | 1500                |
| MLV1210HA026V0400 | 20                     | 26     | 33 (29.7~36.3)    | 400                | 2.5                    | 54  | 1.9                     | 880                 |
| MLV1210HA030V0400 | 25                     | 30     | 39 (35.1~42.9)    | 400                | 2.5                    | 65  | 1.7                     | 800                 |
| MLV1210HA038V0400 | 30                     | 38     | 47 (42.3~51.7)    | 400                | 2.5                    | 77  | 2.0                     | 530                 |
| MLV1812HA018V0800 | 14                     | 18     | 24 (21.6~27.0)    | 800                | 5                      | 38  | 2.3                     | 3500                |
| MLV1812HA030V0800 | 25                     | 30     | 39 (35.1~42.9)    | 800                | 5                      | 65  | 3.7                     | 2350                |
| MLV1812HA038V0800 | 30                     | 38     | 47 (42.3~51.7)    | 800                | 5                      | 77  | 4.2                     | 1600                |
| MLV1812HA045V0800 | 35                     | 45     | 56 (50.4~61.6)    | 800                | 5                      | 90  | 4.2                     | 1200                |
| MLV2220HA014V1200 | 11                     | 14     | 18 (15.3~20.7)    | 1200               | 10                     | 30  | 5.4                     | 10500               |
| MLV2220HA018V1200 | 14                     | 18     | 24 (21.6~27.0)    | 1200               | 10                     | 39  | 5.8                     | 8500                |
| MLV2220HA022V1200 | 17                     | 22     | 27 (24.3~29.8)    | 1200               | 10                     | 44  | 7.2                     | 8300                |
| MLV2220HA030V1200 | 25                     | 30     | 39 (35.1~42.9)    | 1200               | 10                     | 65  | 9.6                     | 6000                |
| MLV2220HA038V1200 | 30                     | 38     | 47 (42.3~51.7)    | 1200               | 10                     | 77  | 12.0                    | 4000                |
| MLV2220HA045V1200 | 35                     | 45     | 56 (50.4~61.6)    | 1200               | 10                     | 90  | 12.0                    | 3500                |