

# Over Voltage Protection Device

## Varistor ESD Series



**Electro Static discharge (ESD)** is the transients as short duration excursion. Our ESD products are based on the design of multilayer fabrication technology to suppress ESD events. Our products meet IEC61000-4-2 standard for Electromagnetic Compliance testing. We supply extra low capacitance and protect integrated circuits protection

### ■ Feature

- Fast Response < 0.5nSec
- Low Working Voltage
- Low Capacitance 0.05pF
- Low Leakage Current < 1 uA
- Low Clamping Voltage
- Bi-directional

| Part No              | Working Voltage       | Clamping Voltage Vlamp(max) |      | Leakage Current | Capacitance Volume | ESD Contact | ESD Air |
|----------------------|-----------------------|-----------------------------|------|-----------------|--------------------|-------------|---------|
| (Unit)               | V <sub>DC</sub> (Max) | 0402                        | 0603 | uA(Max)         | pF                 | KV          | KV      |
| SFI0201-050E330NP-LF | 5                     | 26                          |      | 1               | 33                 | ≥8          | ≥15     |
| SFI0201-120E120NP-LF | 12                    | 50                          |      | 1               | 12                 | ≥8          | ≥15     |
| SFIXXXX-050E101NP-LF | 5                     | 52                          | 36   | 1               | 100                | ≥8          | ≥15     |
| SFIXXXX-050E560NP-LF | 5                     | 52                          | 36   | 1               | 56                 | ≥8          | ≥15     |
| SFIXXXX-050E330NP-LF | 5                     | 52                          | 34   | 1               | 33                 | ≥8          | ≥15     |
| SFIXXXX-050E220NP-LF | 5                     | 52                          | 34   | 1               | 22                 | ≥8          | ≥15     |
| SFIXXXX-050E100NP-LF | 5                     | 72                          | 65   | 1               | 10                 | ≥8          | ≥15     |
| SFIXXXX-050E050PP-LF | 5                     | 72                          | 55   | 1               | 4~9                | ≥8          | ≥15     |
| SFIXXXX-120E101NP-LF | 12                    | 55                          | 55   | 1               | 100                | ≥8          | ≥15     |
| SFIXXXX-120E560NP-LF | 12                    | 55                          | 55   | 1               | 56                 | ≥8          | ≥15     |
| SFIXXXX-120E330NP-LF | 12                    | 55                          | 55   | 1               | 33                 | ≥8          | ≥15     |
| SFIXXXX-120E220NP-LF | 12                    | 55                          | 55   | 1               | 22                 | ≥8          | ≥15     |
| SFIXXXX-120E100NP-LF | 12                    | 72                          | 60   | 1               | 10                 | ≥8          | ≥15     |
| SFIXXXX-120E050PP-LF | 12                    | 72                          | 85   | 1               | 4~9                | ≥8          | ≥15     |
| SFIXXXX-240E2R5PP-LF | 24                    | 200                         | 240  | 1               | 2~4.5              | ≥8          | ≥15     |
| SFIXXXX-240E3R0PP-LF | 24                    | 200                         | -    | 1               | 1.6~5.4            | ≥8          | ≥15     |
| SFIXXXX-240E0R8PP-LF | 24                    | 200                         | 200  | 1               | 0.8~1.5            | ≥8          | ≥15     |
| SFIXXXX-240E0R3PP-LF | 24                    | 350                         | 350  | 1               | 0.15~0.45          | ≥8          | ≥15     |
| SFI0805-120E101NP-LF | 12                    | 60                          |      | 1               | 100                | ≥8          | ≥15     |
| SFI0805-120E560NP-LF | 12                    | 60                          |      | 1               | 56                 | ≥8          | ≥15     |

### Specification ( XXXX=0402 or 0603 size )

- 1.This Clamping Voltage at which the device stabilized during the transition from high to low impedance 8/20μs waveform current 1A.
2. All capacitance tests are under 1MHz, and the Leakage current is measured at working voltage.