# NTC Thermistors, Inrush Current Limiters

## DESCRIPTION

The standard surge limiter series comprises devices engineered to protect electrical systems by mitigating the impact of potentially harmful power surges. These surge limiters have received UL certification, attesting to their safety and performance.

## FEATURES

RoHS COMPLIANT

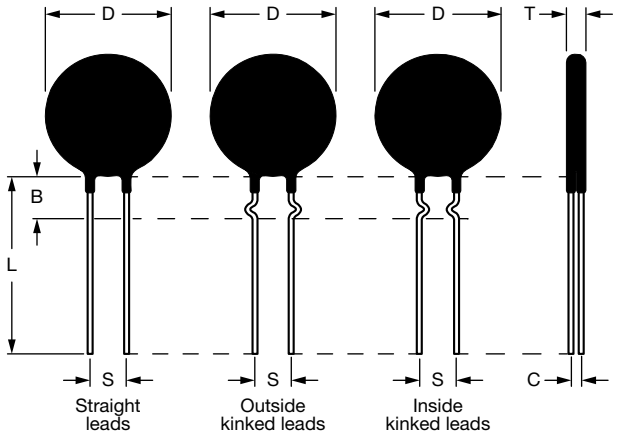
- Enhanced protection
- Recognized by UL
- Can withstand up to 1.1 A of continuous current and 29 J of input energy
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

## APPLICATIONS

- Residential
- Commercial
- Industrial
- Healthcare
- Renewable energy
- Electric vehicle

| QUICK REFERENCE DATA | | |
|---|---|---|
| PARAMETER | VALUE | UNIT |
| Resistance at 25 °C ($R_{25}$) | 50 | Ω |
| Tolerance on $R_{25}$ value | ± 25 | % |
| Max. steady-state current up to 65 °C | 1.1 | A |
| Max. recommended energy rating | 18 | J |
| Actual failure instantaneous energy | 29 | J |
| Resistance at 100 % max. current | 0.95 | Ω |
| Resistance at 50 % max. current | 0.38 | Ω |
| Body temperature at 100 % max. current | 125 | °C |
| Dissipation constant | 11.2 | mW/°C |
| Thermal time constant | 38 | s |
| Material type (for beta and curve) | H | |

**MECHANICAL SPECIFICATIONS** in millimeters




| SYMBOL | SL1050001 |
|---|---|
| B | 6.35 ± 0.6 |
| C | 2.82 ± 0.5 |
| D | 10.0 ± 0.5 |
| L | 38.0 nom. |
| S | 5.1 nom. |
| T | 5.0 ± 0.5 |
| Lead diameter | 0.5 ± 0.1 |
| Straight leads | 3.0 max. |

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