

## 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.

### QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Resistance at 25 °C ( $R_{25}$ )	50	$\Omega$
Tolerance on $R_{25}$ value	$\pm 25$	%
Max. steady-state current up to 65 °C	2	A
Max. recommended energy rating	18	J
Actual failure instantaneous energy	29	J
Max. capacitance at 120 V <sub>AC</sub>	900	$\mu$ F
Max. capacitance at 240 V <sub>AC</sub>	225	$\mu$ F
Resistance at 100 % max. current	0.44	$\Omega$
Resistance at 50 % max. current	1.2	$\Omega$
Body temperature at 100 % max. current	140	°C
Dissipation factor	11.2	mW/°C
Thermal time constant	38	s
Material type (for beta and curve)	H	-

### FEATURES

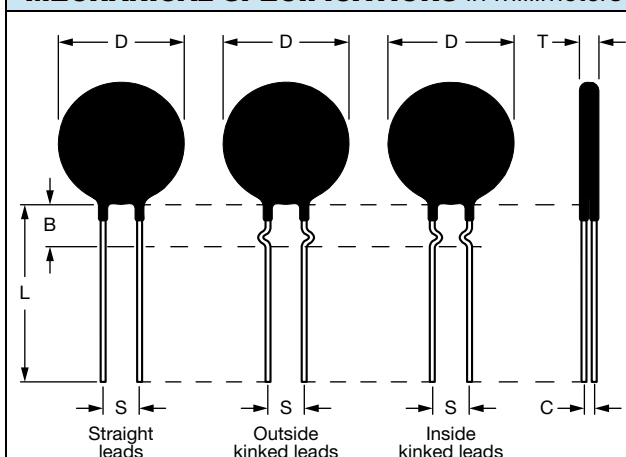
- Enhanced protection
- Recognized by UL
- Can withstand up to 2 A of continuous current and 29 J of input energy
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

**RoHS**  
COMPLIANT

### APPLICATIONS

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

### MECHANICAL SPECIFICATIONS in millimeters



SYMBOL	SL10 50002
B	6.35 nom.
C	2.82 nom.
D	10.0 max.
L	38.0 nom.
S	5.0 nom.
T	4.0 max.
Lead diameter	0.5 nom.
Straight leads	3.5 max.



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