

# NTC Thermistors, miniAMP Inrush Current Limiters



## DESCRIPTION

These miniature inrush current limiters are your solution for space-sensitive applications. The miniAMP series is designed for applications where board space is limited and cool operation is desired. The cost effective miniAMP inrush current limiter is an efficient way to protect components such as relays, diodes, and fuses from inrush current.

## QUICK REFERENCE DATA

PARAMETER	VALUE	UNIT
Resistance at 25 °C ( $R_{25}$ )	2.5	$\Omega$
Tolerance on $R_{25}$ value	$\pm 20$	%
Max. steady-state current up to 65 °C	4	A
Body temperature at 100 % max. current	144	°C
Max. recommended energy rating	8	J
Actual failure instantaneous energy	16	J
Maximum capacitance at 120 V <sub>AC</sub>	200	$\mu$ F
Resistance at 100 % max. current	0.15	$\Omega$
Resistance at 50 % max. current	0.3	$\Omega$
Dissipation factor	67	mW/°C
Thermal time constant	8	s
Material type (for beta and curve)	A	-

## FEATURES

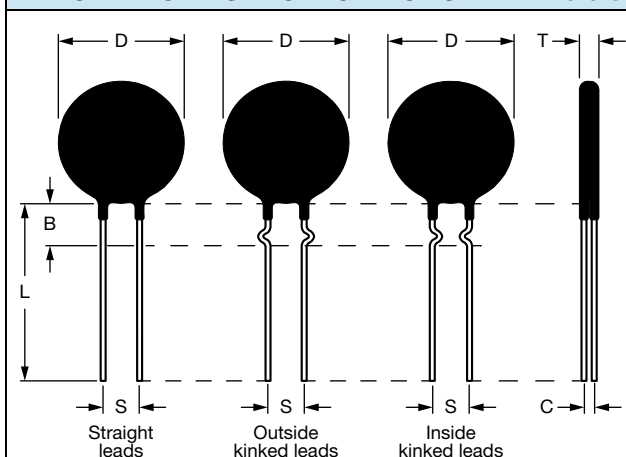
- Rugged and reliable
- Recognized by UL and CSA
- Can withstand up to 4 A of continuous current and 16 J of input energy
- Operating temperature range: -40 °C to +150 °C
- Radial leaded inrush current limiter is available on kinked or straight leads, the standard lead length is 0.5"
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

**RoHS**  
COMPLIANT

## APPLICATIONS

- Switching power supplies
- AC motors
- Uninterruptible power supplies
- Variable frequency drive
- Other equipment that can be improved with inrush current protection

## MECHANICAL SPECIFICATIONS in millimeters



SYMBOL	SL082R504
B	5.5 ± 0.5
C	2.82 ± 0.5
D	8.0 ± 0.3
L	38.0 ± 9
S	6.3 ± 0.5
T	3.5 ± 0.3
Lead diameter	0.5 ± 0.1



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