

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	2.5	Ω
Tolerance on R_{25} value	± 25	%
Max. steady-state current up to 65 °C	3	A
Max. recommended energy rating	10	J
Actual failure instantaneous energy	20	J
Resistant at 100 % max. current	0	Ω
Resistant at 50 % max. current	0.35	Ω
Body temperature at 100 % max. current	75	°C
Dissipation constant	9	mW/°C
Thermal time constant	25	s
Material type (for beta and curve)	C	

FEATURES

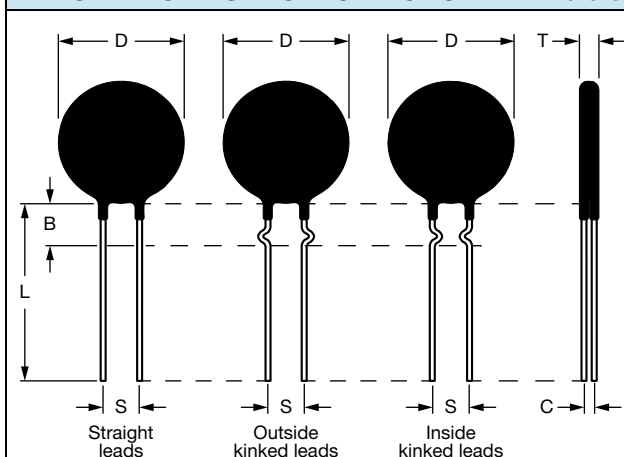
- Rugged and reliable
- Recognized by UL and CSA
- Can withstand up to 3 A of continuous current and 20 J of input energy
- Operating temperature range: -40 °C to +150 °C
- Radial leaded inrush current limiter is available on kinked or straight leads, the standard lead length is 0.5"
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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	SL082R503
B	6.3 nom.
C	1.5 \pm 0.2
D	8.0 \pm 0.5
L	38.0 nom.
S	5.1 nom.
T	3.0 \pm 0.5
Lead diameter	0.5 \pm 0.1
Straight leads	5.0 \pm 1.0



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