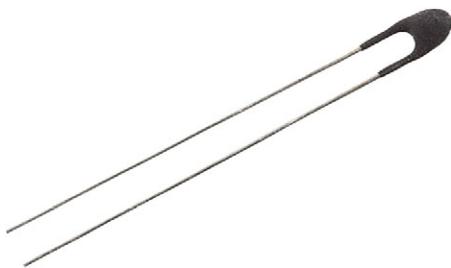


NTC Thermistors, miniAMP Inrush Current Limiters



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.

FEATURES

RoHS
COMPLIANT

- Rugged and reliable
- Can withstand up to 2 A of continuous current and 4 J of input energy
- Operating temperature range: -40 °C to +150 °C
- Radial leaded inrush current limiter is available on straight leads, the standard lead length is 0.5"
- 24AWG and 28AWG wire options
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

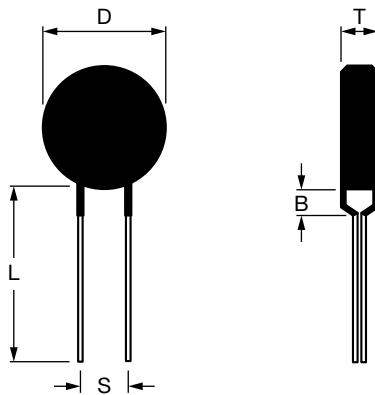
- Switching power supplies
- AC motors
- Uninterruptible power supplies
- Variable frequency drive
- Other equipment that can be improved with inrush current protection

QUICK REFERENCE DATA

PART NUMBER	RESISTANCE AT 25 °C (R_{25}) (Ω)	TOLERANCE ON R_{25} VALUE (%)	MAX. STEADY-STATE CURRENT UP TO 65 °C (A)	MAX. RECOMMENDED ENERGY RATING (J)	MAX. VOLTAGE (V _{AC})	MAX. CAPACITANCE AT 120 V _{AC} (μF)
SL0310001	10	± 20	1	1	-	100
SL0320001	20	± 20	1	2	120	200
SL0340001	40	± 25	1	2	-	-
SL0350001	50	± 20	1	2	-	-
SL0322101	220	± 20	1	2	-	100

ELECTRICAL SPECIFICATIONS

PART NUMBER	ACTUAL FAILURE INSTANTANEOUS ENERGY (J)	RESISTANCE AT 100 % MAX. CURRENT (Ω)	RESISTANCE AT 50 % MAX. CURRENT (Ω)	BODY TEMP. AT 100 % MAX. CURRENT (°C)	DISSIPATION FACTOR (mW/°C)	THERMAL TIME CONSTANT (s)	MATERIAL TYPE (FOR BETA AND CURVE)
SL0310001	2	1	2	115	3.8	10	A
SL0320001	-	1.06	2.46	115	3.8	10	-
SL0340001	3	1.13	1.44	115	3.8	10	A
SL0350001	4	1.1	2.8	115	3.8	10	C
SL0322101	4	2.2	5	137	3.8	10	M

MECHANICAL SPECIFICATIONS in millimeters


PART NUMBER	B	C	D	L	S	T	LEAD DIAMETER	LEAD STYLE
SL0310001	3.0 nom.	1.2 nom.	3.7 max.	38.0 nom.	2.5 nom.	3.5 max.	0.5 nom.	Straight
SL0320001	3.0 nom.	1.0 nom.	3.7 max.	38.0 nom.	2.5 ± 0.2	3.5 max.	0.5 ± 0.1	Straight
SL0340001	3.0 nom.	2.3 nom.	2.5 max.	38.0 nom.	2.5 nom.	3.0 max.	0.5 nom.	Straight
SL0350001	-	2.35 nom.	3.0 max.	38.0 nom.	4.0 nom.	3.0 max.	0.5 nom.	Straight
SL0322101	3.0 nom.	2.3 nom.	3.0 max.	38.0 nom.	3.0 nom.	3.0 max.	0.5 nom.	Straight

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