Vishay Ametherm

# **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 <sub>25</sub> )	20	Ω
Tolerance on $R_{25}$ value	± 20	%
Max. voltage	120	V <sub>AC</sub>
Max. recommended energy rating	1	J
Max. steady-state current up to 65 °C	1	Α
Max. capacitance at 120 V <sub>AC</sub>	200	μF
Resistance at 100 % of max. current	1.06	Ω
Resistance at 50 % of max. current	2.46	Ω
Dissipation factor	4.9	mW/°C
Thermal time constant	10	S
Body temperature at 100 % current rating	113	°C

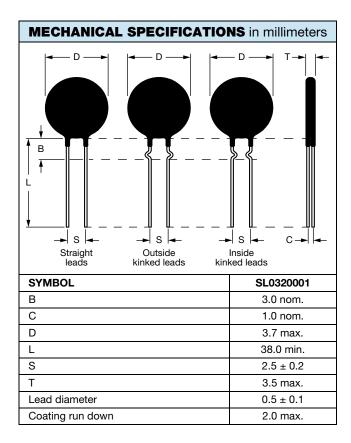
#### **FEATURES**

RoHS

- Rugged and reliable
- Can withstand up to 1 A of continuous current and 1 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 <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>

#### **APPLICATIONS**

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





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