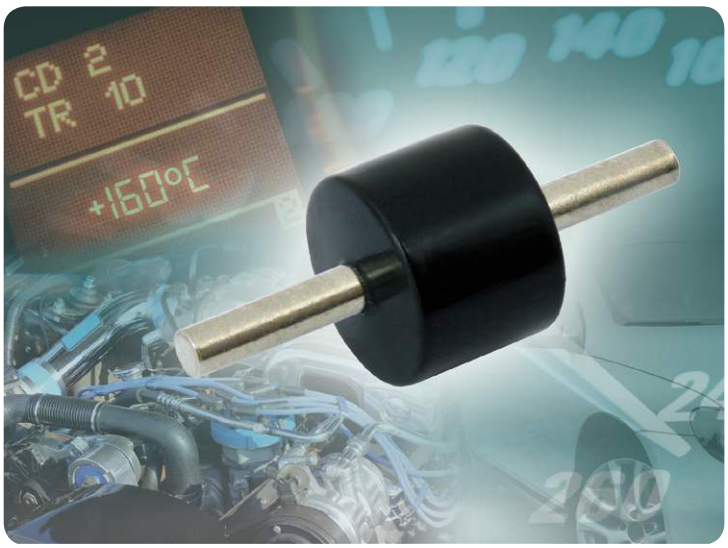
HIGH-CURRENT THERMAL FUSE

HCTF Series

Fuses - High Current Range Up to 55 A

High-Current Thermal Fuse



KEY BENEFITS

- Functioning temperature: ϑ_F = (235 ± 15) °C
- Holding temperature: ϑ_H = 160 °C
- Current: ≤ 55 A
- Safety interrupt of electrical power

APPLICATIONS

- Fan cooling units
- Liquid cooling pump control units
- Inlet air control units
- Diesel pre-heater
- Engine control units
- ABS control units
- Heater plug

END PRODUCTS

- Cars and trucks

RESOURCES

- Datasheet: HCTF 235 - http://www.vishay.com/doc?28798
- For technical questions contact fuse@vishay.com
- Material categorization: For definitions of compliance please see http://www.vishay.com/doc?99912

Pb-free RoHS COMPLIANT

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

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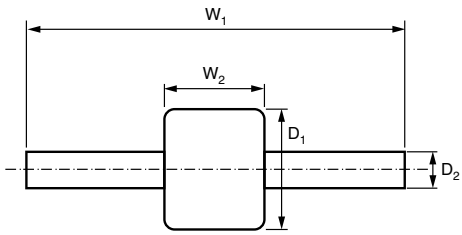
The HCTF series is especially designed for high current applications with an operation temperature up to 160 °C. In case of excess heat in the range of the functioning temperature of (235 ± 15) °C the thermo fuse opens automatically and disconnects the circuit. Typical applications are automotive power electronics that are connected to steady battery power (B+ or terminal number 30).

TECHNICAL SPECIFICATIONS	
DESCRIPTION	**HCTF 235**
Functioning temperature ϑ_F	(235 ± 15) °C
Holding temperature ϑ_H (1000 h)	160 °C
Voltage *U* DC	24 V
Current *I* DC (1)	≤ 55 A
Cold resistance R_{cold}	≤ 0.1 mΩ
Residual resistance R_s after breaking	> 1 MΩ

Note

(1) Current rating depends on external thermal management.



DIMENSIONS - Mass and relevant physical dimensions					
TYPE	**W_1 (mm)**	**W_2 (mm)**	**D_1 (mm)**	**D_2 (mm)**	**MASS (g)**
HCTF	19.8 ± 0.5	6.5 ± 0.5	8.0 ± 0.5	1.8 ± 0.2	1.3 ± 0.3

PART NUMBER AND PRODUCT DESCRIPTION (1)

PART NUMBER: HCTF235L055000BR00

H	C	T	F	2	3	5	L	0	5	5	0	0	0	B	R	0	0

TYPE/ FUNCTIONING TEMPERATURE	TOLERANCE	SPECIAL	CURRENT	PACKAGING	SPECIAL
HCTF235	**L** = ± 15 °C	**0** = Standard	Current in mA. **55000** = 55 A	**BR**	Up to 2 digits **00** = Standard

PRODUCT DESCRIPTION: HCTF 235 15 °C BR 55A0

HCTF	235	15 °C	BR	55A0
TYPE	FUNCTIONING TEMPERATURE	TOLERANCE	PACKAGING	CURRENT
HCTF	**235**	**± 15 °C**	**BR**	**55A0** = 55 A

Note

(1) Products can be ordered using either the PART NUMBER or the PRODUCT DESCRIPTION

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