

THALES

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CONSULT US TO GET
YOUR OWN
CUSTOM MODULE!

FUNCTIONAL DESCRIPTION

- 28V DC or 115V AC network

Thales Microelectronics

High-reliability active lightning protection

The image features a Thales Microelectronics lightning protection module in the foreground, which is a rectangular metal component with a ribbed top edge and several mounting holes. The Thales logo is prominently displayed on its front face, along with the text "Thales Microelectronics S.A.S". In the background, a large commercial airplane is shown flying through a dark, cloudy sky. Several bright lightning bolts are visible, striking the ground and the aircraft, symbolizing the product's purpose of protecting aircraft from lightning strikes.



Active Lightning Protection

28 DC or 115V AC network

APPLICATIONS

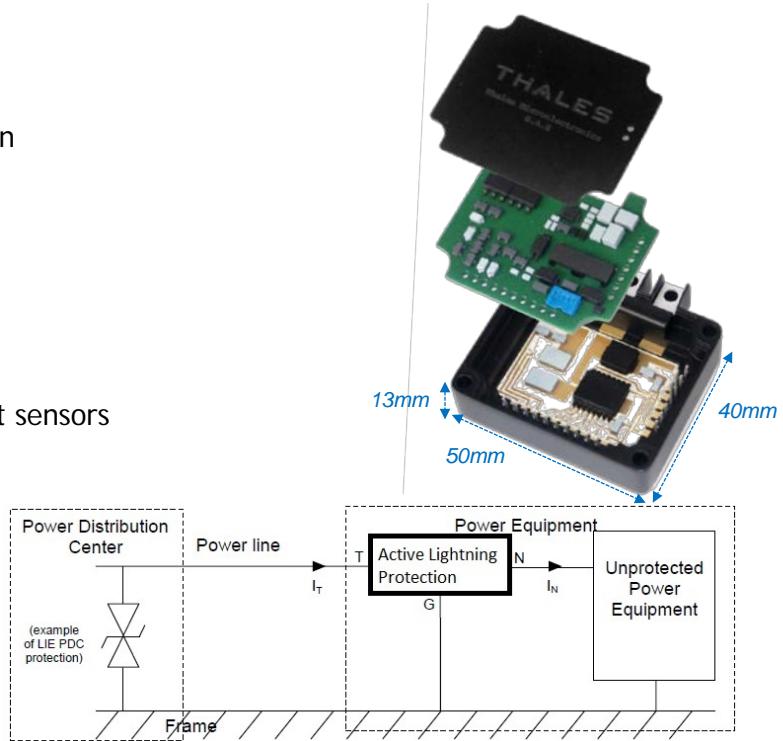
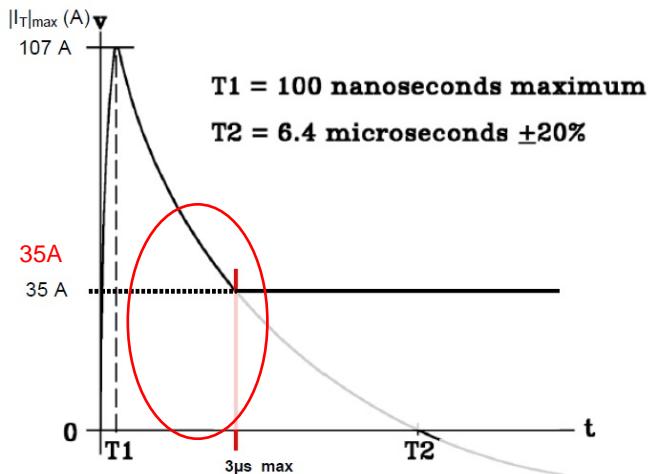
- Power network active lightning protection
- High efficiency static switch
- Aircraft power network

FEATURES

- SiC Mosfet and magneto-resistive current sensors
- Fast switching, low loss
- High Power density
- Weight < 0,3 Kgr

PERFORMANCES

- $T_c @25^\circ\text{C}$ unless otherwise specified



OPERATIONAL BENEFIT

Innovative current limiter

This active solution suppresses electric arc hazards by controlling the current so that $[I_T]$ never exceeds the greater of these 2 values:

- 35A
- Short circuit current waveform specified for WF2

	Long wave Waveform 5A	Long wave Waveform 4	Short wave Waveform 2	Oscillator wave Waveform 3 (1 MHz & 10 MHz)
Duration	40/120μs	6.4/70 μs	0.1/6.4μs	Cf DO160
First test	1 st 500V/500A	750V/150A	1600V/107A	1500V/60A
Second test	1500V/15A	N/A	N/A	N/A

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