FUNCTIONAL DESCRIPTION

- 28V DC or 115V AC network

Thales Microelectronics

High-reliability active lightning protection
Active Lightning Protection
28 DC or 115V AC network

APPLIANCES
- 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
- $T_c \leq 25^\circ C$ 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

<table>
<thead>
<tr>
<th></th>
<th>Long wave Waveform 5A</th>
<th>Long wave Waveform 4</th>
<th>Short wave Waveform 2</th>
<th>Oscillator wave Waveform 3 (1 MHz &amp; 10 MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>40/120µs</td>
<td>6.4/70 µs</td>
<td>0.1/8.4µs</td>
<td>CF DC160</td>
</tr>
<tr>
<td>First test</td>
<td>500V/500A</td>
<td>750V/150A</td>
<td>1600V/107A</td>
<td>1500V/60A</td>
</tr>
<tr>
<td>Second test</td>
<td>1500V/15A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>