

Danfoss

Silicon Power



The new facility of Danfoss Silicon Power



Custom specific high current Sixpack



BPI

Battery Powered Inverter



COMMITMENT · RELIABILITY
What really matters is inside
OPENNESS · IN



Standard packages



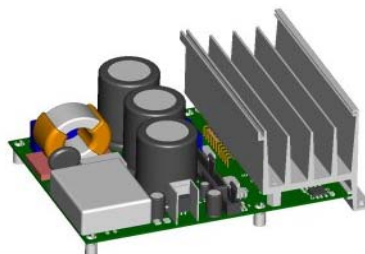
New Product Concept from Danfoss Drives

VLT® 5000 Series



- 0.75 - 450 kW
- Industrial

Customer Dedicated
Low Power Drives



VLT® 6000 HVAC Series



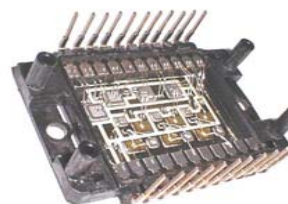
- 1.1 - 250 kW
- Building services

VLT®FCM 300 Series



- 0.55 - 7.5 kW
- Cross Segment

Customer-specific and
Standard Power
Modules



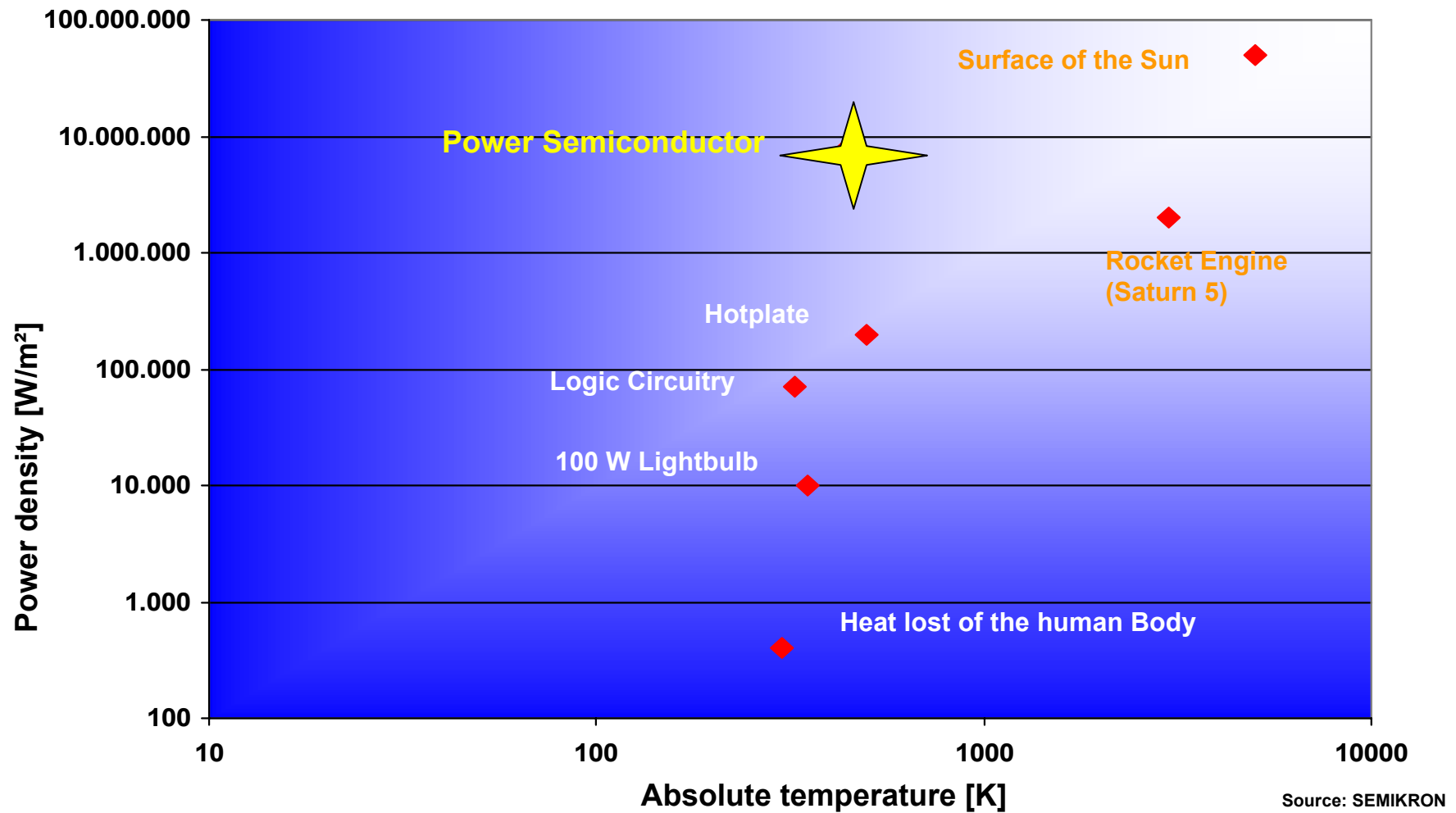
VLT® 2800 Series



- 0.37 - 7.5 kW
- Low power
- Industrial
- Multi purpose



Power densities to compare



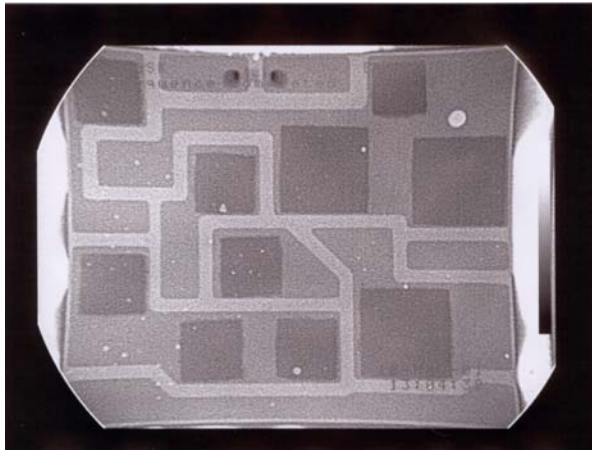
CORE COMPETENCIES

Module Design Capability
Thermal – Electrical - Mechanical

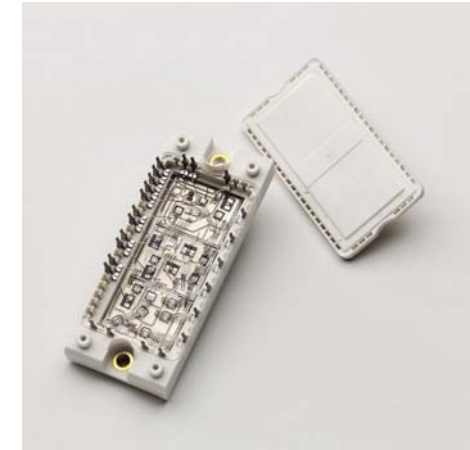
Module Manufacturing Capability
voidfree soldering
chip experience - cleaning processes

Customer relations
creativity, agility, flexibility

CORE COMPETENCIES – VOIDFREE SOLDERING

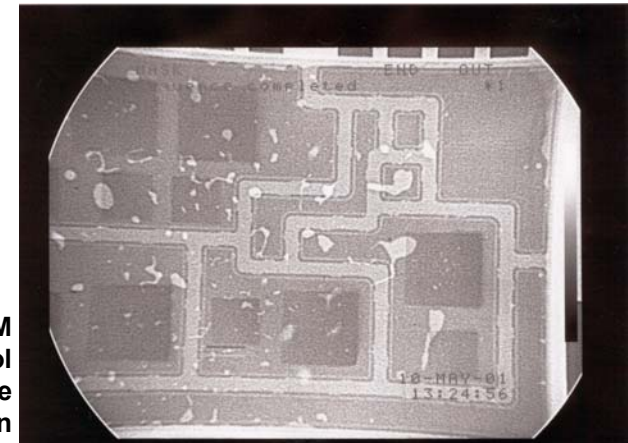


Danfoss PIM
X-ray control,
random sample
from DD production

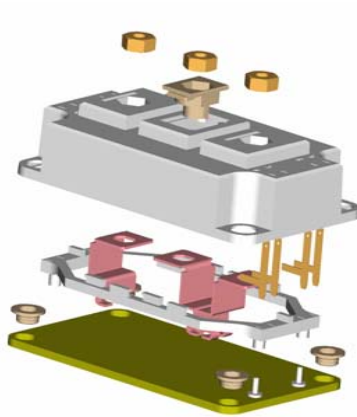


Superior void free soldering
lead to superior thermal capabilities,
which lead to
superior electronic components

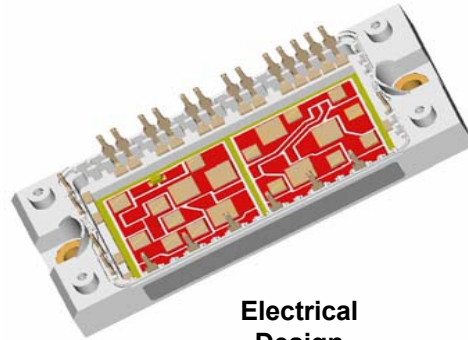
XX PIM
X-ray control
random sample
from DD Production



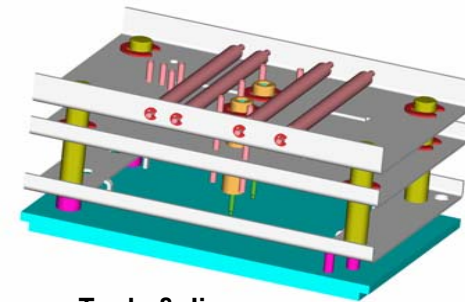
Engineering Capabilities



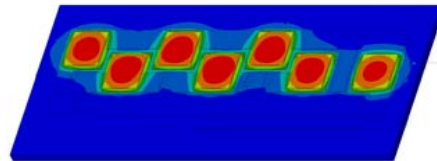
Mechanical Components



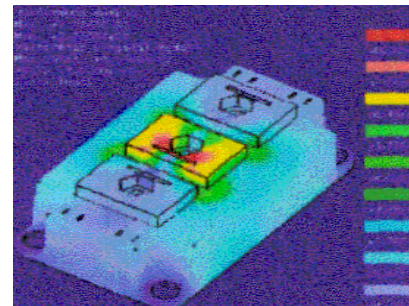
Electrical Design



Tools & Jigs for Production



Thermal FEM Simulation

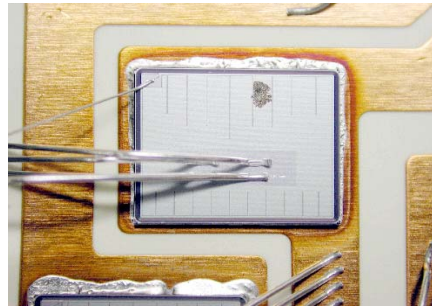


Mechanical Stress Simulation

Engineering Capabilities

TEST NO.	TEST DATE	TEST TIME	TEST RESULT	TESTER
101	2001-10-01	10:00	PASS	J. Doe
102	2001-10-02	11:00	FAIL	J. Doe
103	2001-10-03	12:00	PASS	J. Doe
104	2001-10-04	13:00	PASS	J. Doe
105	2001-10-05	14:00	PASS	J. Doe
106	2001-10-06	15:00	PASS	J. Doe
107	2001-10-07	16:00	PASS	J. Doe
108	2001-10-08	17:00	PASS	J. Doe
109	2001-10-09	18:00	PASS	J. Doe
110	2001-10-10	19:00	PASS	J. Doe

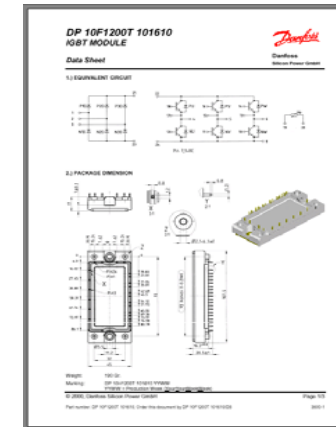
Final Test
•Program
•Adapter
•Testsystem



Failure Analysis



Qualification Test



Datasheets