

THALES

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CUSTOM MODULE!

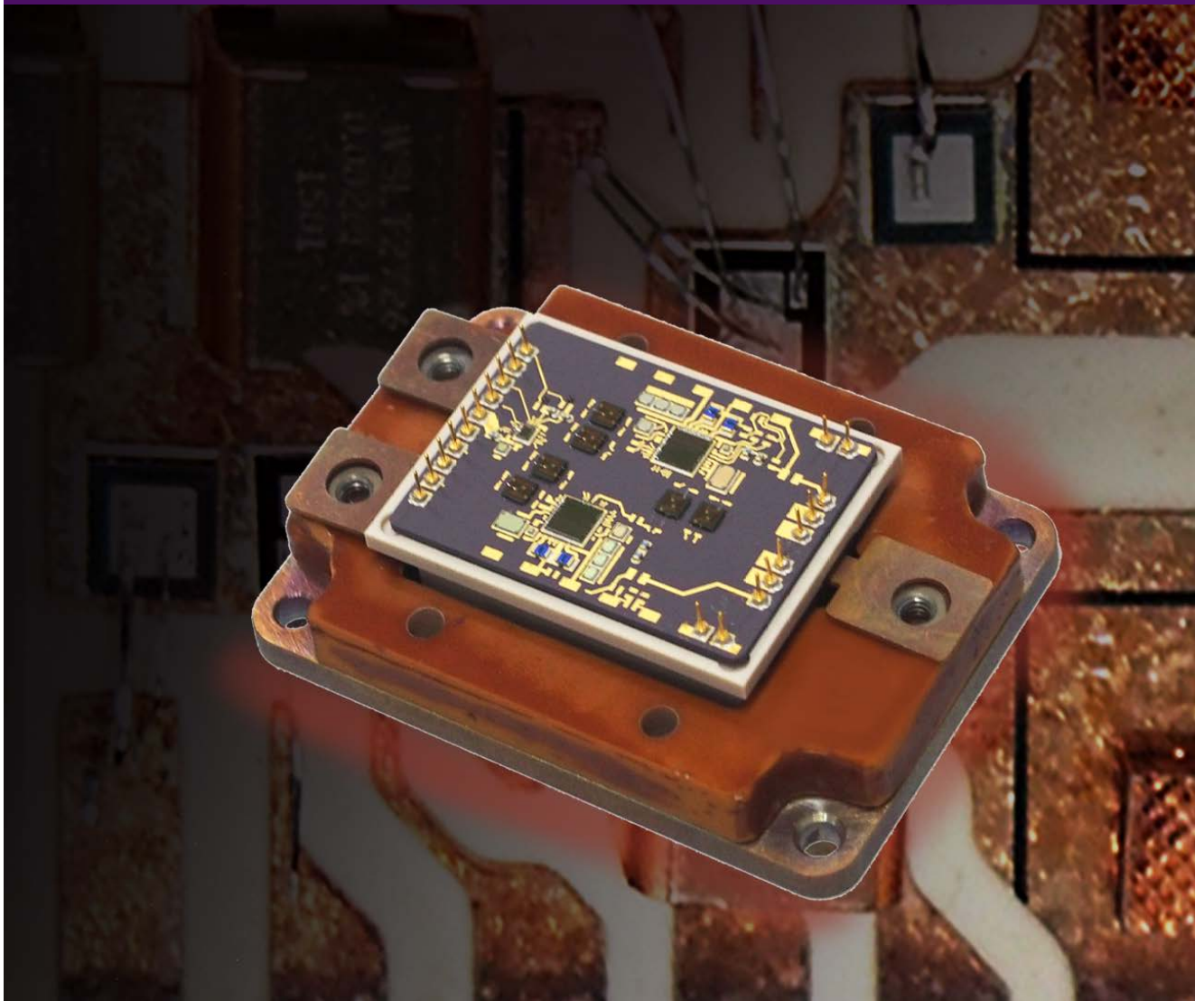
FUNCTIONAL DESCRIPTION

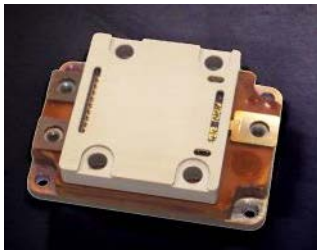
1200V / 25A

Robustified technologies for extended lifetime systems

Thales Microelectronics

>200° C phase-leg with integrated SOI driver





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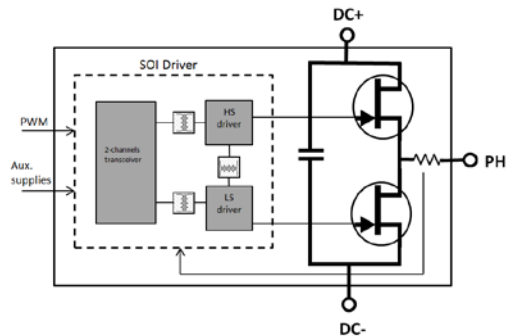
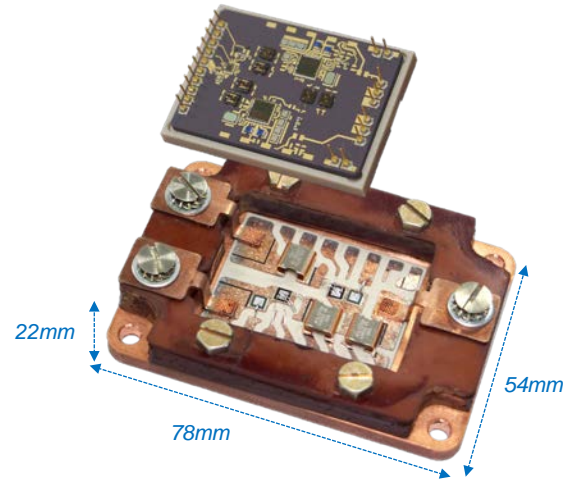
1200V / 25A

APPLICATIONS

- High temperature motor-driving
- Harsh environment electrical actuators

FEATURES

- Normally-on SiC JFet
- HT° SOI driver with innovative spring contacts
- Fast switching, low loss
- Weight < 250g
- Integrated temperature and current sensors
- Integrated DC snubber capacitor



MAIN PERFORMANCES (Tj=25°C unless otherwise specified)

Symbol	Parameter	Conditions	Value	Units
V_{DSS}	Maximum Drain-source voltage		1200	V
I_D	Maximum Continuous drain current	Tc=100°C Tc=150°C Tc=180°C	25 20 17	A
R_{DSON}	Drain to source typ. On resistance	Tj=25°C / Vgs = 0V Tj=150°C / Vgs=0V Tj = 250°C / Vgs=0V	80 175 273	mΩ
Tsw	Switching time		< 50	ns
Rth j-c	Junction to case thermal resistance	Per switch	0,89	K/W
Tj_max	Max. Operating junction temperature		250	°C
Tc_max	Max. Operating case temperature		200	°C

This module has been developed within the framework of the European collaborative project SiCRATES

