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Editorial Preview

elektronik industrie in December 2020:

- Measurement technology
- Power Electronics
- Power Supplies
- Crystals & Oscillators
- Microwave components

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Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg

Tel.: +49 6221 489-232
Fax: +49 6221 489-482
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Measurement technology

Cover story

There are many things we are not yet allowed to reveal at this point in time, but one thing is certain: A major manufacturer of measurement technology will be exclusively presenting an all-new product electronic industrie.

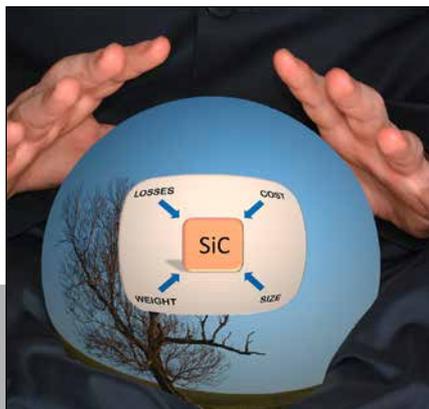
Power Semiconductors

The future of SiC semiconductors – a look into the crystal ball

In the last three years alone, SiC as a semiconductor technology has achieved such a great leap forward in that it can compete with silicon. Now in third generation, SiC has reached a remarkable level of performance with a growing number of applications. Elektronik industrie explains what will be needed next for SiC, where it will be used and how it can become the dominant force in the power supply sector.

Key components of an overall SiC system solution

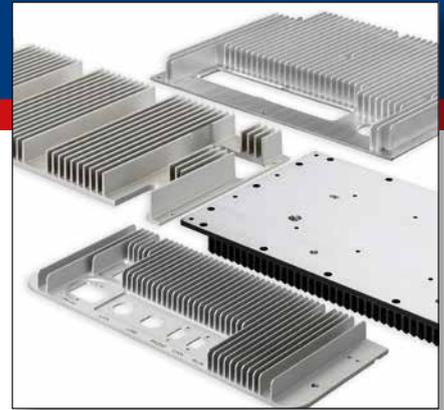
How can the design-in process in the deployment of SiC semiconductors be simplified for developers? Basically, the answer is simple: With holistic solutions that also take interactions into account! Consequently, potential SiC suppliers should not only prove the performance



and robustness of their SiC MOSFET technology, but also provide design-in support.

Aluminum heat sink

Depending on the required performance class, temperature management has a direct influence on the required space and on the total weight of the electronic unit. For many cooling tasks, aluminum heat sinks are used, which are manufactured by extrusion. With the help of individually adaptable finned heat sinks, very high fin ratios can be generated, especially for forced heat dissipation.



Power supply

Chargers with blocking oscillator and BJT

In many chargers the self-oscillating choke converter (RCC, ringing choke converter) has established itself. Such a system can be implemented with a bipolar transistor and emitter switching technology, whose properties are equivalent to those of a MOSFET. This solution achieves a high degree of efficiency and is also robust and reliable.

From IEC 60950-1 and IEC 60065 to IEC 62368-1

What information will device designers and manufacturers have to know and understand in ensuring that their products conform with IEC 62368-1? In the case of IEC 60950-1 and IEC 60065 everything was still clear, but what is particularly important now?

High power contacts: The last lead bastions are falling

The starter battery is one of the few applications in which lead is still used today, as exemption directives apply here. However, these are due to expire

in 2021. From this moment on, no electrical and electronic equipment will be allowed in Europe that exceed the limit of 0.1% lead in materials. But developers need not panic – after all, lead-free alternatives do exist.

Transformer with fixed transmission ratio

In order to supply a Poll controller with the required voltage or to generate a corresponding bus voltage in an intermediate circuit, regulation is not always necessary. Consequently, developers should also consider the possibility of using DC/DC converters with a fixed transformation ratio.

Crystals/Oscillators

Little things make big differences

Without crystals and oscillators, digital electronics is unthinkable. The editorial team presents the very latest products in this area and provides background information.

Microwave components

High, higher and highest

Especially in the field of microwave components, it is the small things that decide on the success of a design with such high frequencies. But what does that mean in actual practice?

EDITORIAL PREVIEW



Advertising formats

	Width x height	Basic price b/w	4c
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1/4 page	41 mm x 257 mm /178 mm x 62 mm	€ 1,620.00	€ 2,220.00

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Contact Persons

Advertising manager:
Frank Henning
Tel. +49 6221 489-363
frank.henning@huethig.de

Publishers

Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg
Tel. +49 6221 489-232
Fax +49 6221 489-482
www.all-electronics.de

Sales Force

Austria, Great Britain, Ireland, USA, Canada
Marion Taylor-Hauser
Max-Böhm-Ring 3
D-95488 Eckersdorf
Tel. +49 921 31663
Fax +49 921 32875
taylor.m@t-online.de

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