The CAS300M17BM2 from CREE Semiconductor is a 2-transistor power module with a breakdown voltage of 1700V for a current of 225A (90°C), an ultra low on-resistance (8mΩ), a fast switching speed and a fast reverse recovery.

The 1700V module integrates twelve 2nd generation high-voltage SiC power MOSFET dies with a current of 50A (90°C) for 29 sq mm.

Twelve Z-Rec diodes of 36 sq mm are integrated in the power module. The Z-Rec diode is a mix between a Schottky and junction barrier diode.

The 1700V MOSFET has a new gate design, a more sophisticated ohmic contact and an optimized technology to reduce the epitaxy layer thickness. A comparison with a 1200V SiC module is done in the report for the MOSFET, Diode and Module.

Based on a complete teardown analysis, the report provides an estimation of the production cost of the CAS300M17BM2 package, SiC MOSFET Transistor and Schottky Barrier Diode.
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ABOUT YOLE DEVELOPPEMENT

Beginning in 1998 with Yole Développement, we have grown to become a group of companies providing market research, technology analysis, strategy consulting, media in addition to finance services. With a solid focus on emerging applications using silicon and/or micro manufacturing Yole Développement group has expanded to include more than 40 associates worldwide covering MEMS, Microfluidics & Medical, Advanced Packaging, Compound Semiconductors, Power Electronics, LED, and Photovoltaic. The group supports companies, investors and R&D organizations worldwide to help them understand markets and follow technology trends to develop their business.

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1. Scope

1.1 The Contracting Parties undertake to observe the following general conditions when agreed by the Buyer and the Seller. ANY ADDITIONAL, DIFFERENT, OR CONFLICTING TERMS AND CONDITIONS IN ANY OTHER DOCUMENTS ISSUED BY THE BUYER AT ANY TIME ARE HEREBY OBLIGED TO BY THE SELLER, SHALL BE WHOLLY INAPPLICABLE TO ANY SALE MADE HEREUNDER AND SHALL NOT BE BINDING IN ANY WAY ON THE SELLER.

1.2 This agreement becomes valid and enforceable between the Contracting Parties after clear and non-equivalent consent by any duly authorised person representing the Buyer. For these purposes, the “signature” of a condition for sale or delivery shall be deemed to have been accepted.

1.3 Orders are deemed to be accepted only upon written acceptance and confirmation by the Seller, within 7 days from the date of order, to be sent either by email or to the Buyer’s address. In the absence of written orders, orders shall be deemed to have been accepted.

2. Mailing of the Products

2.1 Products are sent by email to the Buyer:

- Within 1 month from the order date for products already released;
- After a reasonable time for products ordered prior to their effective release. In this case, the Seller shall use its best endeavours to inform the Buyer of an indicative release date and the evolution of the work in progress.

2.2 Some weeks prior to the release date the Seller can propose a pre-release discount to the Buyer. The Seller shall be means by no responsibility for any delay in respect of article 2.2 above, and including in cases where a new event or access to new contradictory information would require for the analyst extra time and otherwise it will be possible to deliver no date to deliver to the company Product.

2.3 The mailing of the Product will occur only upon payment by the Buyer, in accordance with the conditions contained in article 3.4.

2.4 Payment of the payment shall be made by the Buyer via a bank account, transfer, direct debit or electronic methods (including internet banking) or automatically online via an email/password. If the Products electronic delivery format is defective, the Seller undertakes to replace it at no charge to the Buyer provided that it is informed of the defective formatting within 90 days from the date of the original download or receipt of the Product.

2.5 The Buyer is undertaking to verify the quality of the Products and their conformance to the order. Any claim for apparent defects or for non-conformity shall be sent in writing to Seller within 8 days of receipt of the Product. For this purpose, the Buyer agrees to produce sufficient evidence of such defects.

2.6 No return of Products is accepted without prior information to the Seller, even in case of delayed delivery. Any Product returned to the Seller returned to the Seller with return and specific costs will not be returned unless agreed by the Seller in writing at the time of order.

2.7 Price, invoicing and payment

3.1 Prices are given in the form of product corresponding to each Product sold on a unit basis or corresponding to annual subscriptions. They are expressed to be inclusive of all taxes. The prices may be reevaluated from time to time. The effective price is deemed to be the one applicable at the time of the order.

3.2 Yole may offer a pre-release discount for the companies willing to acquire in the future the specific report and agreeing on the fact that the report may be release before the later anticipated release date. In exchange, the Buyer will get a discount that can vary from 15% to 10%

3.3 Payments due by the Buyer shall be sent by cheque payable to Yole Développement, credit card or by electronic transfer to the following account: HSBC, 1 place de la Bourse 69002 Lyon France Bank code: 30056 Branch code: 200- 1656 8780; or SWIFT 200170 Account: 0170 02 00 CFFRFRPRB PN7 3005 6001 7001 7002 0155 568.

3.4 To ensure the payments, the Seller reserves the right to request down payments from the Buyer. In this case, the need of down payments will be mentioned on the order.

3.5 Payment is due by the Buyer to the Seller within 30 days from invoice date, except in the case of a particular written agreement. If the Buyer fails to pay within this time and fails to contact the Seller, then the Buyer shall pay interest on the outstanding amount in arrears based on an annual rate of the « BCE » + 7 points, in accordance with article L 441-1-6 of the French Commercial Code.

3.6 In the event of termination of the contract, or of misconduct, during the contract, the Seller will have the right to invoice at the stage in progress, and to take legal action for damages.

4. Liability

4.1 The Seller or any other individual or legal person acting on its behalf, being a business user buying the Products for its business activities, shall be solely responsible for choosing the Products and for the use and interpretation he makes of the documents it purchases, of the results he obtains, and of the advice and acts it deduces therefrom.

4.2 The Seller takes no responsibility for the indirect and/or consequential loss caused. This results in arising from the material breach of this agreement.

4.3 In no event shall the Seller be liable for:

a) damages of any kind, either derivatively, incidental or consequential damages (including, but not limited to, damages for loss of profits, business interruption and loss of programs or information) arising out of the use or inability to use the Seller’s website or the Products, or any information, programs or instructions provided, on the website or in the products;

b) any claim attributable to errors, omissions or other inaccuracies in the Product or interpretations thereof.

4.4 The Sellers undertake that the Products shall be delivered in good condition to the Buyer.

4.5 The Seller undertakes to defend all claims arising from this infringement, whether this infringement comes from its employees or any person to whom the Buyer has sent the Products and shall personally take care of any related proceedings, and the Buyer shall bear related financial consequences in their entirety.

4.6 The Buyer shall define within its company point of contact for the needs of the contract. This person will be the recipient of each new report in PDF format. This person shall also be responsible for the respect of the copyrights and will guarantee that the Products are not disseminated out of the company.

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4.8 In the event of breach by one Party under these conditions or the order, the non-breaching Party may send a notification to the other by recorded delivery letter upon which, after a period of thirty (30) days without solving the problem, the non-breaching Party shall be entitled to terminate all the pending orders, without being liable for any compensation.

5. Miscellaneous

5.1 All of the provisions of these Terms and Conditions are for the benefit of the Seller itself, but also for its licensees, employees and agents. Each of them is entitled to assert and enforce those provisions against the Buyer.

5.2 Any notices under these Terms and Conditions shall be given in writing. They shall be effective upon receipt by the other Party.

5.3 The Seller may, from time to time, update these Terms and Conditions and the Buyer, is deemed to have accepted the latest version of these terms and conditions, provided they have been communicated to him in due time.

5.4 Governing law and jurisdiction

5.5 The Buyer is entitled to bring an action or linked to these Terms and Conditions or to any contract (orders) entered into application of these Terms and Conditions shall be settled by the French Commercial Courts of Lyon, which shall have exclusive jurisdiction upon such issues.

5.6 French law shall govern the relation between the Buyer and the Seller, in accordance with these Terms and Conditions.