

# CREE – CMF20120

## The first SiC MOSFET

### 1200V 80mΩ SiC MOSFET transistor

Reverse Costing Analysis by System Plus Consulting – April 2011

#### Physical Analysis of the Device

#### Step by Step Reconstruction of the Process Flow

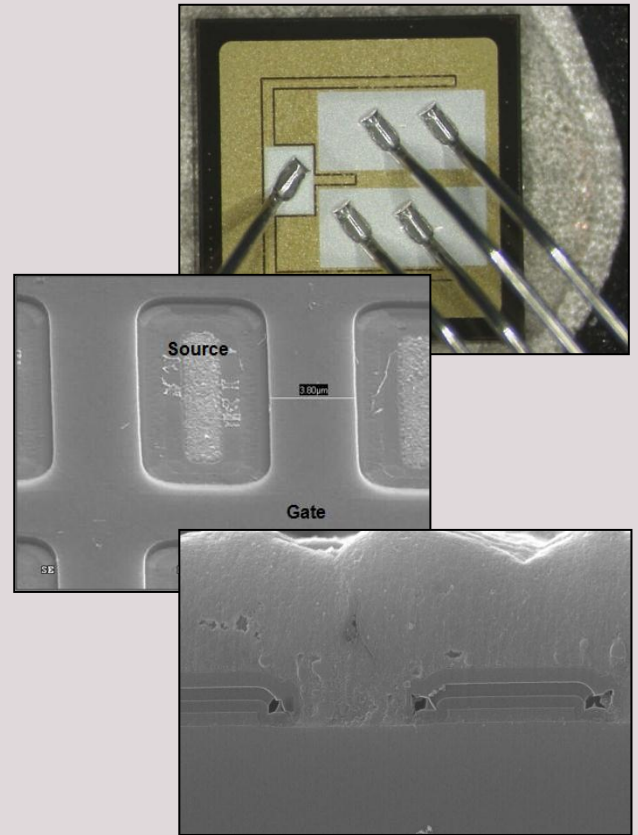
#### Cost of Manufacturing & Estimation of Selling Price

System Plus Consulting is pleased to publish a reverse costing report on the CMF20120 silicon carbide (SiC) power transistor from CREE. This 1200V MOSFET offers a very low on-resistance (80mΩ).

Based on a complete teardown process, the report provides an estimation of the production cost as well as the selling price of the CMF20120.

This reverse costing report of the first SiC MOSFET transistor contains:

- Detailed photos
- Material analysis
- SIMS analysis
- Manufacturing process flow
- In-depth economical analysis
- Manufacturing cost breakdown
- Selling price estimation



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# ORDER FORM

Please enter my order for CREE SiC CMF20120 Reverse Costing Analysis

- Corporate license price: EURO 5,190\*
- Site license price: EURO 4,290\*
- Single user license price: EURO 3,490\*

\*For price in dollars please use the day's exchange rate

\*All reports are delivered electronically in pdf format

\*For French customer, add 19,6 % for VAT

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The present document is valid 6 months after its publishing date: 1<sup>st</sup> January 2012.

## ABOUT SYSTEM PLUS CONSULTING

System Plus Consulting is specialized in the **cost analysis** of electronics from **semiconductor devices** to **electronic systems**.  
Around this main line System Plus Consulting developed a complete range of services and costing tools to provide **in-depth production cost studies** and estimation of the **objective selling price** of the product.

### COSTING SERVICES

- ✓ **On demand Reverse Costing studies** are performed on ICs, ASICs, MEMs, Power Devices, ECUs, electronic boards and full electronic systems
- ✓ **The catalog of available reports** includes cost analyzes on MEMS, Electronic components and Electronic systems (Telecom terminals, Power systems, Consumer products)

All these studies are performed using in-house developed costing tools and their technological databases.

### COSTING TOOLS

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- ✓ IC Price+ to calculate the cost of any integrated circuit
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- ✓ SYS.Cost which is a costing tool for electronic boards and systems

#### Costing Models

- ✓ Board Assembly – System in Package – System on Chip – Memory Chip – Smart Card – Plastic Part
- ✓ Other costing models can be developed according to customer specification

#### Cost Simulation Tools

- ✓ Powerful flow builders including exhaustive databases to simulate a device processing cost
- ✓ Available now: MEMS CoSim+ • IGBT CoSim+ • SiC CoSim+ • LED CoSim+ • TSV CoSim+ • PV CoSim+ (photovoltaic)

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