

Global Silicon Carbide Patent Intelligence Market 2026 – Strategic Analysis of Leading Companies, Technology Trends, Manufacturing, Innovation, and Competitive Landscape

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Abstracts

The Global Silicon Carbide Patent Intelligence report provides an in-depth analysis of the intellectual property landscape within the global silicon carbide industry by evaluating patent filing activities, technology innovation trends, patent ownership, research activities, and emerging innovation domains. The report enables organizations to monitor technology leadership, assess competitive intellectual property positions, identify licensing opportunities, and support strategic decisions related to research, product development, and technology commercialization.

The study examines global patent portfolios across SiC substrates and epitaxial wafers, bulk and bare wafers, power devices and modules, MOSFETs, Schottky diodes, IGBTs, JFETs, gate drive and control circuits, advanced packaging, 200mm wafer scale-up technologies, and next-generation SiC power platforms. It also analyzes patent filing trends, leading patent holders, technology domains, geographic distribution, citation analysis, and emerging innovators to provide actionable intelligence on the evolving SiC innovation ecosystem.

The report further highlights patent commercialization opportunities, licensing activities, research collaborations, and future technology directions to help organizations strengthen innovation strategies and intellectual property portfolios.

Key Coverage

Silicon carbide patent landscape

Patent filing trends and growth analysis

Technology domain analysis (substrates, epitaxy, devices, modules, packaging)

Leading patent holders and assignees

Patent portfolio benchmarking

Geographic patent distribution

Citation analysis

Licensing landscape and FTO intelligence

White-space opportunities

Future patent outlook

Target Audience

Chief Intellectual Property Officers (CIPOs)

Intellectual Property & Patent Teams

Research & Development (R&D) Teams

SiC Technology Developers

Innovation Management Teams

Technology Scouting Teams

Product Development Teams

Semiconductor Manufacturers

Automotive OEMs

Renewable Energy Companies

Universities & Research Institutions

Government & Research Organizations

Technology Transfer Offices

Investment & Venture Capital Firms

Legal & Licensing Professionals

What This Report Offers

Comprehensive silicon carbide patent landscape assessment

Patent filing and publication trend analysis

Patent portfolio benchmarking

Leading patent holder and assignee analysis

SiC technology domain analysis

Geographic patent distribution assessment

Patent citation and quality analysis

Inventor and innovation activity assessment

Licensing and patent commercialization insights

Freedom-to-operate intelligence

Emerging innovation and white-space opportunity identification

Future intellectual property and technology outlook

Key Companies Covered (Illustrative)

Wolfspeed Inc.

Sumitomo Electric Industries, Ltd.

Fuji Electric Co., Ltd.

Infineon Technologies AG

Toshiba Corporation

Mitsubishi Electric Corporation

ROHM Co., Ltd.

Resonac Corporation

TankeBlue

Global Power Technology Co., Ltd.

BYD Company Limited

Nissan Motor Co., Ltd.

and other leading patent holders and industry participants.

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- 12.9 TankeBlue
- 12.10 Global Power Technology Co., Ltd.
- 12.11 BYD Company Limited
- 12.12 Nissan Motor Co., Ltd.
- 12.13 Denso Corporation
- 12.14 Toyota Motor Corporation
- 12.15 Sharp Corporation
- 12.16 ASM International N.V.
- 12.17 LPE S.p.A.
- 12.18 Panasonic Holdings Corporation
- 12.19 Hitachi, Ltd.
- 12.20 Fujitsu Limited

12.21 NXP Semiconductors N.V.

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