

Global Trench Field Stop IGBT Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G77C0ACD02CEEN.html>

Date: May 2023

Pages: 107

Price: US\$ 4,480.00 (Single User License)

ID: G77C0ACD02CEEN

Abstracts

The global Trench Field Stop IGBT market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Trench type field stop IGBT is a power semiconductor device commonly used in high voltage and high current applications. Compared with conventional IGBTs, trench-type field-stop IGBTs have higher switching speed and lower turn-on voltage drop, which can achieve higher efficiency and higher frequency operation. The trench type field stop IGBT is characterized by the 'trench' in its structure. These trenches reduce the leakage current of the IGBT, thereby reducing the turn-on voltage drop of the device. At the same time, the trenches can also increase the switching speed of the device, because they reduce the distance that electrons can drift in the transistor, thereby reducing the drift time. In addition, the trench-type field-stop IGBT also uses the 'field-stop' technology, that is, by adding a P-type region to the device to increase the cut-off voltage of the device. This technology can make the IGBT have higher withstand voltage capability and lower switching loss in the switching state. In general, the trench-type field stop IGBT is a high-efficiency, high-performance power semiconductor device suitable for applications requiring high voltage and high current, such as power electronics, power converters, motor drives, etc.

This report studies the global Trench Field Stop IGBT production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Trench Field Stop IGBT, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Trench Field Stop IGBT that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Trench Field Stop IGBT total production and demand, 2018-2029, (K Units)

Global Trench Field Stop IGBT total production value, 2018-2029, (USD Million)

Global Trench Field Stop IGBT production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Trench Field Stop IGBT consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Trench Field Stop IGBT domestic production, consumption, key domestic manufacturers and share

Global Trench Field Stop IGBT production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Trench Field Stop IGBT production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Trench Field Stop IGBT production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Trench Field Stop IGBT market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bourns Inc., Infineon Technologies, Micro Commercial Co, Microchip Technology, Microsemi Corporation, onsemi, Rohm Semiconductor, Sanken and SemiQ, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Trench Field Stop IGBT market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Trench Field Stop IGBT Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Trench Field Stop IGBT Market, Segmentation by Type

Surface Mount

Through Hole Mounting

Global Trench Field Stop IGBT Market, Segmentation by Application

Electronic

Energy

Industrial

Medical

Aerospace

Automobile

Other

Companies Profiled:

Bourns Inc.

Infineon Technologies

Micro Commercial Co

Microchip Technology

Microsemi Corporation

onsemi

Rohm Semiconductor

Sanken

SemiQ

STMicroelectronics

WeEn Semiconductors

Hangzhou Silan Microelectronics Co., Ltd

Key Questions Answered

1. How big is the global Trench Field Stop IGBT market?
2. What is the demand of the global Trench Field Stop IGBT market?
3. What is the year over year growth of the global Trench Field Stop IGBT market?
4. What is the production and production value of the global Trench Field Stop IGBT market?
5. Who are the key producers in the global Trench Field Stop IGBT market?
6. What are the growth factors driving the market demand?

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