

# Global Asymmetric Gate Turn-off Thyristors (GTO) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

https://marketpublishers.com/r/G4F2EEFA81FEEN.html

Date: February 2023

Pages: 98

Price: US\$ 3,480.00 (Single User License)

ID: G4F2EEFA81FEEN

# **Abstracts**

According to our (Global Info Research) latest study, the global Asymmetric Gate Turn-off Thyristors (GTO) market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

This report is a detailed and comprehensive analysis for global Asymmetric Gate Turn-off Thyristors (GTO) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

#### **Key Features:**

Global Asymmetric Gate Turn-off Thyristors (GTO) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Asymmetric Gate Turn-off Thyristors (GTO) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Asymmetric Gate Turn-off Thyristors (GTO) market size and forecasts, by Type



and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Asymmetric Gate Turn-off Thyristors (GTO) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Asymmetric Gate Turn-off Thyristors (GTO)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Asymmetric Gate Turn-off Thyristors (GTO) 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 Hitachi Energy, Littelfuse, Inc., 5S Components Inc., Dynex Technologies and PAN HAO CO., LTD.. etc.

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

Market Segmentation

Asymmetric Gate Turn-off Thyristors (GTO) market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

**Buffer Layer** 

Standard



Market segment by Application	
Power	
Motor Drive	
Consumer Electronics	
Others	
Major players covered	
Hitachi Energy	
Littelfuse, Inc.	
5S Components Inc.	
Dynex Technologies	
PAN HAO CO., LTD.	
Market segment by region, regional analysis covers	
North America (United States, Canada and Mexico)	
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)	
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)	
South America (Brazil, Argentina, Colombia, and Rest of South America)	
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)	



The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Asymmetric Gate Turn-off Thyristors (GTO) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Asymmetric Gate Turn-off Thyristors (GTO), with price, sales, revenue and global market share of Asymmetric Gate Turn-off Thyristors (GTO) from 2018 to 2023.

Chapter 3, the Asymmetric Gate Turn-off Thyristors (GTO) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Asymmetric Gate Turn-off Thyristors (GTO) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022.and Asymmetric Gate Turn-off Thyristors (GTO) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Asymmetric Gate Turn-off Thyristors (GTO).

Chapter 14 and 15, to describe Asymmetric Gate Turn-off Thyristors (GTO) sales channel, distributors, customers, research findings and conclusion.



# **Contents**

#### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Asymmetric Gate Turn-off Thyristors (GTO)
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
- 1.3.1 Overview: Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption

Value by Type: 2018 Versus 2022 Versus 2029

- 1.3.2 Buffer Layer
- 1.3.3 Standard
- 1.4 Market Analysis by Application
- 1.4.1 Overview: Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption

Value by Application: 2018 Versus 2022 Versus 2029

- 1.4.2 Power
- 1.4.3 Motor Drive
- 1.4.4 Consumer Electronics
- 1.4.5 Others
- 1.5 Global Asymmetric Gate Turn-off Thyristors (GTO) Market Size & Forecast
- 1.5.1 Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018 & 2022 & 2029)
  - 1.5.2 Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity (2018-2029)
  - 1.5.3 Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price (2018-2029)

#### **2 MANUFACTURERS PROFILES**

- 2.1 Hitachi Energy
  - 2.1.1 Hitachi Energy Details
  - 2.1.2 Hitachi Energy Major Business
  - 2.1.3 Hitachi Energy Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
  - 2.1.4 Hitachi Energy Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.1.5 Hitachi Energy Recent Developments/Updates
- 2.2 Littelfuse, Inc.
  - 2.2.1 Littelfuse, Inc. Details
  - 2.2.2 Littelfuse, Inc. Major Business
  - 2.2.3 Littelfuse, Inc. Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
  - 2.2.4 Littelfuse, Inc. Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2018-2023)



- 2.2.5 Littelfuse, Inc. Recent Developments/Updates
- 2.3 5S Components Inc.
  - 2.3.1 5S Components Inc. Details
  - 2.3.2 5S Components Inc. Major Business
- 2.3.3 5S Components Inc. Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- 2.3.4 5S Components Inc. Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.3.5 5S Components Inc. Recent Developments/Updates
- 2.4 Dynex Technologies
  - 2.4.1 Dynex Technologies Details
  - 2.4.2 Dynex Technologies Major Business
- 2.4.3 Dynex Technologies Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- 2.4.4 Dynex Technologies Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.4.5 Dynex Technologies Recent Developments/Updates
- 2.5 PAN HAO CO., LTD.
  - 2.5.1 PAN HAO CO., LTD. Details
  - 2.5.2 PAN HAO CO., LTD. Major Business
- 2.5.3 PAN HAO CO., LTD. Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- 2.5.4 PAN HAO CO., LTD. Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.5.5 PAN HAO CO., LTD. Recent Developments/Updates

# 3 COMPETITIVE ENVIRONMENT: ASYMMETRIC GATE TURN-OFF THYRISTORS (GTO) BY MANUFACTURER

- 3.1 Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Asymmetric Gate Turn-off Thyristors (GTO) Revenue by Manufacturer (2018-2023)
- 3.3 Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
- 3.4.1 Producer Shipments of Asymmetric Gate Turn-off Thyristors (GTO) by Manufacturer Revenue (\$MM) and Market Share (%): 2022
  - 3.4.2 Top 3 Asymmetric Gate Turn-off Thyristors (GTO) Manufacturer Market Share in



#### 2022

- 3.4.2 Top 6 Asymmetric Gate Turn-off Thyristors (GTO) Manufacturer Market Share in 2022
- 3.5 Asymmetric Gate Turn-off Thyristors (GTO) Market: Overall Company Footprint Analysis
  - 3.5.1 Asymmetric Gate Turn-off Thyristors (GTO) Market: Region Footprint
- 3.5.2 Asymmetric Gate Turn-off Thyristors (GTO) Market: Company Product Type Footprint
- 3.5.3 Asymmetric Gate Turn-off Thyristors (GTO) Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

#### 4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Asymmetric Gate Turn-off Thyristors (GTO) Market Size by Region
- 4.1.1 Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2018-2029)
- 4.1.2 Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Region (2018-2029)
- 4.1.3 Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Region (2018-2029)
- 4.2 North America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029)
- 4.3 Europe Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029)
- 4.4 Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029)
- 4.5 South America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029)
- 4.6 Middle East and Africa Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029)

#### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2029)
- 5.2 Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Type (2018-2029)



5.3 Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Type (2018-2029)

#### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2029)
- 6.2 Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Application (2018-2029)
- 6.3 Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Application (2018-2029)

#### **7 NORTH AMERICA**

- 7.1 North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2029)
- 7.2 North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2029)
- 7.3 North America Asymmetric Gate Turn-off Thyristors (GTO) Market Size by Country 7.3.1 North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2029)
- 7.3.2 North America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2029)
  - 7.3.3 United States Market Size and Forecast (2018-2029)
  - 7.3.4 Canada Market Size and Forecast (2018-2029)
- 7.3.5 Mexico Market Size and Forecast (2018-2029)

#### **8 EUROPE**

- 8.1 Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2029)
- 8.2 Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2029)
- 8.3 Europe Asymmetric Gate Turn-off Thyristors (GTO) Market Size by Country
- 8.3.1 Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2029)
- 8.3.2 Europe Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2029)
  - 8.3.3 Germany Market Size and Forecast (2018-2029)



- 8.3.4 France Market Size and Forecast (2018-2029)
- 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
- 8.3.6 Russia Market Size and Forecast (2018-2029)
- 8.3.7 Italy Market Size and Forecast (2018-2029)

#### 9 ASIA-PACIFIC

- 9.1 Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2029)
- 9.2 Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2029)
- 9.3 Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Market Size by Region
- 9.3.1 Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2018-2029)
- 9.3.2 Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Region (2018-2029)
  - 9.3.3 China Market Size and Forecast (2018-2029)
  - 9.3.4 Japan Market Size and Forecast (2018-2029)
  - 9.3.5 Korea Market Size and Forecast (2018-2029)
- 9.3.6 India Market Size and Forecast (2018-2029)
- 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
- 9.3.8 Australia Market Size and Forecast (2018-2029)

#### 10 SOUTH AMERICA

- 10.1 South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2029)
- 10.2 South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2029)
- 10.3 South America Asymmetric Gate Turn-off Thyristors (GTO) Market Size by Country 10.3.1 South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2029)
- 10.3.2 South America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2029)
  - 10.3.3 Brazil Market Size and Forecast (2018-2029)
  - 10.3.4 Argentina Market Size and Forecast (2018-2029)

#### 11 MIDDLE EAST & AFRICA



- 11.1 Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2029)
- 11.2 Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Market Size by Country
- 11.3.1 Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2029)
- 11.3.2 Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2029)
  - 11.3.3 Turkey Market Size and Forecast (2018-2029)
  - 11.3.4 Egypt Market Size and Forecast (2018-2029)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
  - 11.3.6 South Africa Market Size and Forecast (2018-2029)

#### 12 MARKET DYNAMICS

- 12.1 Asymmetric Gate Turn-off Thyristors (GTO) Market Drivers
- 12.2 Asymmetric Gate Turn-off Thyristors (GTO) Market Restraints
- 12.3 Asymmetric Gate Turn-off Thyristors (GTO) Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
  - 12.5.1 Influence of COVID-19
  - 12.5.2 Influence of Russia-Ukraine War

#### 13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Asymmetric Gate Turn-off Thyristors (GTO) and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Asymmetric Gate Turn-off Thyristors (GTO)
- 13.3 Asymmetric Gate Turn-off Thyristors (GTO) Production Process
- 13.4 Asymmetric Gate Turn-off Thyristors (GTO) Industrial Chain

#### 14 SHIPMENTS BY DISTRIBUTION CHANNEL



- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Asymmetric Gate Turn-off Thyristors (GTO) Typical Distributors
- 14.3 Asymmetric Gate Turn-off Thyristors (GTO) Typical Customers

#### 15 RESEARCH FINDINGS AND CONCLUSION

#### **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer



# **List Of Tables**

#### LIST OF TABLES

- Table 1. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 2. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 3. Hitachi Energy Basic Information, Manufacturing Base and Competitors
- Table 4. Hitachi Energy Major Business
- Table 5. Hitachi Energy Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- Table 6. Hitachi Energy Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 7. Hitachi Energy Recent Developments/Updates
- Table 8. Littelfuse, Inc. Basic Information, Manufacturing Base and Competitors
- Table 9. Littelfuse, Inc. Major Business
- Table 10. Littelfuse, Inc. Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- Table 11. Littelfuse, Inc. Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 12. Littelfuse, Inc. Recent Developments/Updates
- Table 13. 5S Components Inc. Basic Information, Manufacturing Base and Competitors
- Table 14. 5S Components Inc. Major Business
- Table 15. 5S Components Inc. Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- Table 16. 5S Components Inc. Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 17. 5S Components Inc. Recent Developments/Updates
- Table 18. Dynex Technologies Basic Information, Manufacturing Base and Competitors
- Table 19. Dynex Technologies Major Business
- Table 20. Dynex Technologies Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- Table 21. Dynex Technologies Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)



- Table 22. Dynex Technologies Recent Developments/Updates
- Table 23. PAN HAO CO., LTD. Basic Information, Manufacturing Base and Competitors
- Table 24. PAN HAO CO., LTD. Major Business
- Table 25. PAN HAO CO., LTD. Asymmetric Gate Turn-off Thyristors (GTO) Product and Services
- Table 26. PAN HAO CO., LTD. Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 27. PAN HAO CO., LTD. Recent Developments/Updates
- Table 28. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Manufacturer (2018-2023) & (K Units)
- Table 29. Global Asymmetric Gate Turn-off Thyristors (GTO) Revenue by Manufacturer (2018-2023) & (USD Million)
- Table 30. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Manufacturer (2018-2023) & (US\$/Unit)
- Table 31. Market Position of Manufacturers in Asymmetric Gate Turn-off Thyristors (GTO), (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022
- Table 32. Head Office and Asymmetric Gate Turn-off Thyristors (GTO) Production Site of Key Manufacturer
- Table 33. Asymmetric Gate Turn-off Thyristors (GTO) Market: Company Product Type Footprint
- Table 34. Asymmetric Gate Turn-off Thyristors (GTO) Market: Company Product Application Footprint
- Table 35. Asymmetric Gate Turn-off Thyristors (GTO) New Market Entrants and Barriers to Market Entry
- Table 36. Asymmetric Gate Turn-off Thyristors (GTO) Mergers, Acquisition, Agreements, and Collaborations
- Table 37. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2018-2023) & (K Units)
- Table 38. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2024-2029) & (K Units)
- Table 39. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Region (2018-2023) & (USD Million)
- Table 40. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Region (2024-2029) & (USD Million)
- Table 41. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Region (2018-2023) & (US\$/Unit)
- Table 42. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Region (2024-2029) & (US\$/Unit)



- Table 43. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2023) & (K Units)
- Table 44. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2024-2029) & (K Units)
- Table 45. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Type (2018-2023) & (USD Million)
- Table 46. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Type (2024-2029) & (USD Million)
- Table 47. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Type (2018-2023) & (US\$/Unit)
- Table 48. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Type (2024-2029) & (US\$/Unit)
- Table 49. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2023) & (K Units)
- Table 50. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2024-2029) & (K Units)
- Table 51. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Application (2018-2023) & (USD Million)
- Table 52. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Application (2024-2029) & (USD Million)
- Table 53. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Application (2018-2023) & (US\$/Unit)
- Table 54. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Application (2024-2029) & (US\$/Unit)
- Table 55. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2023) & (K Units)
- Table 56. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2024-2029) & (K Units)
- Table 57. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2023) & (K Units)
- Table 58. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2024-2029) & (K Units)
- Table 59. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2023) & (K Units)
- Table 60. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2024-2029) & (K Units)
- Table 61. North America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2023) & (USD Million)
- Table 62. North America Asymmetric Gate Turn-off Thyristors (GTO) Consumption



Value by Country (2024-2029) & (USD Million)

Table 63. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2023) & (K Units)

Table 64. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2024-2029) & (K Units)

Table 65. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2023) & (K Units)

Table 66. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2024-2029) & (K Units)

Table 67. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2023) & (K Units)

Table 68. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2024-2029) & (K Units)

Table 69. Europe Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2023) & (USD Million)

Table 70. Europe Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2024-2029) & (USD Million)

Table 71. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2023) & (K Units)

Table 72. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2024-2029) & (K Units)

Table 73. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2023) & (K Units)

Table 74. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2024-2029) & (K Units)

Table 75. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2018-2023) & (K Units)

Table 76. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2024-2029) & (K Units)

Table 77. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Region (2018-2023) & (USD Million)

Table 78. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Region (2024-2029) & (USD Million)

Table 79. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2023) & (K Units)

Table 80. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2024-2029) & (K Units)

Table 81. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2023) & (K Units)



Table 82. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2024-2029) & (K Units)

Table 83. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2018-2023) & (K Units)

Table 84. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Country (2024-2029) & (K Units)

Table 85. South America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2018-2023) & (USD Million)

Table 86. South America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by Country (2024-2029) & (USD Million)

Table 87. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2018-2023) & (K Units)

Table 88. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Type (2024-2029) & (K Units)

Table 89. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2018-2023) & (K Units)

Table 90. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Application (2024-2029) & (K Units)

Table 91. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2018-2023) & (K Units)

Table 92. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity by Region (2024-2029) & (K Units)

Table 93. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO)

Consumption Value by Region (2018-2023) & (USD Million)

Table 94. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO)

Consumption Value by Region (2024-2029) & (USD Million)

Table 95. Asymmetric Gate Turn-off Thyristors (GTO) Raw Material

Table 96. Key Manufacturers of Asymmetric Gate Turn-off Thyristors (GTO) Raw Materials

Table 97. Asymmetric Gate Turn-off Thyristors (GTO) Typical Distributors

Table 98. Asymmetric Gate Turn-off Thyristors (GTO) Typical Customers



# **List Of Figures**

#### LIST OF FIGURES

Figure 1. Asymmetric Gate Turn-off Thyristors (GTO) Picture

Figure 2. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by

Type, (USD Million), 2018 & 2022 & 2029

Figure 3. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market

Share by Type in 2022

Figure 4. Buffer Layer Examples

Figure 5. Standard Examples

Figure 6. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value by

Application, (USD Million), 2018 & 2022 & 2029

Figure 7. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market

Share by Application in 2022

Figure 8. Power Examples

Figure 9. Motor Drive Examples

Figure 10. Consumer Electronics Examples

Figure 11. Others Examples

Figure 12. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value,

(USD Million): 2018 & 2022 & 2029

Figure 13. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and

Forecast (2018-2029) & (USD Million)

Figure 14. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity

(2018-2029) & (K Units)

Figure 15. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price

(2018-2029) & (US\$/Unit)

Figure 16. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market

Share by Manufacturer in 2022

Figure 17. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value

Market Share by Manufacturer in 2022

Figure 18. Producer Shipments of Asymmetric Gate Turn-off Thyristors (GTO) by

Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021

Figure 19. Top 3 Asymmetric Gate Turn-off Thyristors (GTO) Manufacturer

(Consumption Value) Market Share in 2022

Figure 20. Top 6 Asymmetric Gate Turn-off Thyristors (GTO) Manufacturer

(Consumption Value) Market Share in 2022

Figure 21. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market

Share by Region (2018-2029)



Figure 22. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Region (2018-2029)

Figure 23. North America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029) & (USD Million)

Figure 24. Europe Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029) & (USD Million)

Figure 25. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029) & (USD Million)

Figure 26. South America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029) & (USD Million)

Figure 27. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value (2018-2029) & (USD Million)

Figure 28. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Type (2018-2029)

Figure 29. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Type (2018-2029)

Figure 30. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Type (2018-2029) & (US\$/Unit)

Figure 31. Global Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Application (2018-2029)

Figure 32. Global Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Application (2018-2029)

Figure 33. Global Asymmetric Gate Turn-off Thyristors (GTO) Average Price by Application (2018-2029) & (US\$/Unit)

Figure 34. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Type (2018-2029)

Figure 35. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Application (2018-2029)

Figure 36. North America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Country (2018-2029)

Figure 37. North America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Country (2018-2029)

Figure 38. United States Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 39. Canada Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Mexico Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market



Share by Type (2018-2029)

Figure 42. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Application (2018-2029)

Figure 43. Europe Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Country (2018-2029)

Figure 44. Europe Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Country (2018-2029)

Figure 45. Germany Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 46. France Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. United Kingdom Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. Russia Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Italy Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Type (2018-2029)

Figure 51. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Application (2018-2029)

Figure 52. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Region (2018-2029)

Figure 53. Asia-Pacific Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Region (2018-2029)

Figure 54. China Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 55. Japan Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Korea Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. India Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Southeast Asia Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Australia Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Type (2018-2029)



Figure 61. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Application (2018-2029)

Figure 62. South America Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Country (2018-2029)

Figure 63. South America Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value Market Share by Country (2018-2029)

Figure 64. Brazil Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 65. Argentina Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Type (2018-2029)

Figure 67. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Application (2018-2029)

Figure 68. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO) Sales Quantity Market Share by Region (2018-2029)

Figure 69. Middle East & Africa Asymmetric Gate Turn-off Thyristors (GTO)

Consumption Value Market Share by Region (2018-2029)

Figure 70. Turkey Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 71. Egypt Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Saudi Arabia Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. South Africa Asymmetric Gate Turn-off Thyristors (GTO) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Asymmetric Gate Turn-off Thyristors (GTO) Market Drivers

Figure 75. Asymmetric Gate Turn-off Thyristors (GTO) Market Restraints

Figure 76. Asymmetric Gate Turn-off Thyristors (GTO) Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Asymmetric Gate Turn-off Thyristors (GTO) in 2022

Figure 79. Manufacturing Process Analysis of Asymmetric Gate Turn-off Thyristors (GTO)

Figure 80. Asymmetric Gate Turn-off Thyristors (GTO) Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology



Figure 85. Research Process and Data Source



#### I would like to order

Product name: Global Asymmetric Gate Turn-off Thyristors (GTO) Market 2023 by Manufacturers,

Regions, Type and Application, Forecast to 2029

Product link: https://marketpublishers.com/r/G4F2EEFA81FEEN.html

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/G4F2EEFA81FEEN.html">https://marketpublishers.com/r/G4F2EEFA81FEEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

