

# Global Surface Mount Gas Discharge Tubes Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Surface Mount Gas Discharge Tubes market size is expected to reach \$ 335 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Surface mount gas discharge tube is an electronic component mainly used for lightning protection and overvoltage protection. It consists of a ceramic cavity and metal electrodes, filled with inert gas (such as neon or argon). When the voltage at both ends reaches a certain value, the gas discharges, thereby protecting the circuit from overvoltage damage. It has the characteristics of lower capacitance characteristics and high over-holding voltage.

The industry chain for surface-mount ceramic gas discharge tubes (GDTs) demonstrates a tightly integrated collaborative network, spanning from the R&D of specialized materials to the integration of end-user systems. The upstream segment centers on core components such as high-alumina ceramic tube bodies, electrode materials (e.g., oxygen-free copper), inert gases, and electronic powders. Ceramic sealing technology and the precise formulation of inert gas mixtures constitute the critical technical barriers that determine the consistency and reliability of the devices. The midstream segment encompasses the device manufacturing stage, where various specifications of SMD GDTs are produced through precision brazing, vacuum gas filling, and automated surface-mount packaging processes.

The global annual sales volume for surface-mount ceramic gas discharge tubes stands at approximately one billion units, with unit prices ranging from around \$0.20 to \$1.50. The industry typically maintains gross profit margins within the 30% to 40% range.

Industry growth is primarily driven by the continuous evolution of global digital infrastructure and the critical demand for highly reliable protection solutions within the new energy sector. First, amidst the trend of the 'Internet of Everything,' outdoor base stations, smart security cameras, and industrial IoT terminals are increasingly exposed to the risks of lightning-induced electromagnetic pulses. This necessitates protection components capable of providing surge discharge capacities in the kilo-ampere range without compromising high-speed data transmission thereby directly driving the adoption rate of low-capacitance SMD Gas Discharge Tubes (GDTs). Second, the projected continued surge in new energy vehicle production through 2026 has triggered an explosive growth in the application of automotive-grade SMD discharge tubes within On-Board Chargers (OBCs) and charging pile control circuits, a trend underpinned by their exceptional performance in high-voltage endurance, vibration resistance, and operation across wide temperature ranges.

As switching-type devices characterized by extremely low inter-electrode capacitance (typically less than 1 pF) and massive current-handling capabilities, SMD GDTs are solidifying their position within the high-frequency communication sector. With the advancement of 5G-Advanced and early-stage 6G technologies, traditional through-hole discharge tubes hindered by their high parasitic inductance and significant PCB footprint requirements are being rapidly supplanted by surface-mount technology solutions.

This report studies the global Surface Mount Gas Discharge Tubes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surface Mount Gas Discharge Tubes and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Surface Mount Gas Discharge Tubes that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Surface Mount Gas Discharge Tubes total production and demand, 2021-2032, (Million Units)

Global Surface Mount Gas Discharge Tubes total production value, 2021-2032, (USD Million)

Global Surface Mount Gas Discharge Tubes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Surface Mount Gas Discharge Tubes consumption by region & country, CAGR,

2021-2032 & (Million Units)

U.S. VS China: Surface Mount Gas Discharge Tubes domestic production, consumption, key domestic manufacturers and share

Global Surface Mount Gas Discharge Tubes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Surface Mount Gas Discharge Tubes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Surface Mount Gas Discharge Tubes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Surface Mount Gas Discharge Tubes 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, Littelfuse, YAGEO, TDK Electronics, Sankosha, Citel, SUNMATE, THINKING, Shenzhen Ruilongyuan Electronics, Socay Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Surface Mount Gas Discharge Tubes market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Surface Mount Gas Discharge Tubes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Surface Mount Gas Discharge Tubes Market, Segmentation by Type:

Secondary Discharge Tube

Three-Pole Discharge Tube

### Global Surface Mount Gas Discharge Tubes Market, Segmentation by Operating Voltage:

Low Voltage

Medium-to-High Voltage

### Global Surface Mount Gas Discharge Tubes Market, Segmentation by Current-Carrying Capacity:

Low Capacity (0.5 kA-2 kA)

High Capacity (3 kA-10 kA and above)

### Global Surface Mount Gas Discharge Tubes Market, Segmentation by Application:

Communication and Network

Security and Surveillance

Industrial

Consumer Electronics

Other

#### Companies Profiled:

Bourns

Littelfuse

YAGEO

TDK Electronics

Sankosha

Citel

SUNMATE

THINKING

Shenzhen Ruilongyuan Electronics

Socay Electronics

Shenzhen Bencent Electronics

SETsafe

#### **Key Questions Answered:**

1. How big is the global Surface Mount Gas Discharge Tubes market?
2. What is the demand of the global Surface Mount Gas Discharge Tubes market?
3. What is the year over year growth of the global Surface Mount Gas Discharge Tubes

market?

4. What is the production and production value of the global Surface Mount Gas Discharge Tubes market?

5. Who are the key producers in the global Surface Mount Gas Discharge Tubes market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Surface Mount Gas Discharge Tubes Introduction
- 1.2 World Surface Mount Gas Discharge Tubes Supply & Forecast
  - 1.2.1 World Surface Mount Gas Discharge Tubes Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Surface Mount Gas Discharge Tubes Production (2021-2032)
  - 1.2.3 World Surface Mount Gas Discharge Tubes Pricing Trends (2021-2032)
- 1.3 World Surface Mount Gas Discharge Tubes Production by Region (Based on Production Site)
  - 1.3.1 World Surface Mount Gas Discharge Tubes Production Value by Region (2021-2032)
  - 1.3.2 World Surface Mount Gas Discharge Tubes Production by Region (2021-2032)
  - 1.3.3 World Surface Mount Gas Discharge Tubes Average Price by Region (2021-2032)
  - 1.3.4 North America Surface Mount Gas Discharge Tubes Production (2021-2032)
  - 1.3.5 Europe Surface Mount Gas Discharge Tubes Production (2021-2032)
  - 1.3.6 China Surface Mount Gas Discharge Tubes Production (2021-2032)
  - 1.3.7 Japan Surface Mount Gas Discharge Tubes Production (2021-2032)
  - 1.3.8 South Korea Surface Mount Gas Discharge Tubes Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Surface Mount Gas Discharge Tubes Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Surface Mount Gas Discharge Tubes Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Surface Mount Gas Discharge Tubes Demand (2021-2032)
- 2.2 World Surface Mount Gas Discharge Tubes Consumption by Region
  - 2.2.1 World Surface Mount Gas Discharge Tubes Consumption by Region (2021-2026)
  - 2.2.2 World Surface Mount Gas Discharge Tubes Consumption Forecast by Region (2027-2032)
- 2.3 United States Surface Mount Gas Discharge Tubes Consumption (2021-2032)
- 2.4 China Surface Mount Gas Discharge Tubes Consumption (2021-2032)
- 2.5 Europe Surface Mount Gas Discharge Tubes Consumption (2021-2032)
- 2.6 Japan Surface Mount Gas Discharge Tubes Consumption (2021-2032)

- 2.7 South Korea Surface Mount Gas Discharge Tubes Consumption (2021-2032)
- 2.8 ASEAN Surface Mount Gas Discharge Tubes Consumption (2021-2032)
- 2.9 India Surface Mount Gas Discharge Tubes Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Surface Mount Gas Discharge Tubes Production Value by Manufacturer (2021-2026)
- 3.2 World Surface Mount Gas Discharge Tubes Production by Manufacturer (2021-2026)
- 3.3 World Surface Mount Gas Discharge Tubes Average Price by Manufacturer (2021-2026)
- 3.4 Surface Mount Gas Discharge Tubes Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Surface Mount Gas Discharge Tubes Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Surface Mount Gas Discharge Tubes in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Surface Mount Gas Discharge Tubes in 2025
- 3.6 Surface Mount Gas Discharge Tubes Market: Overall Company Footprint Analysis
  - 3.6.1 Surface Mount Gas Discharge Tubes Market: Region Footprint
  - 3.6.2 Surface Mount Gas Discharge Tubes Market: Company Product Type Footprint
  - 3.6.3 Surface Mount Gas Discharge Tubes Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Surface Mount Gas Discharge Tubes Production Value Comparison
  - 4.1.1 United States VS China: Surface Mount Gas Discharge Tubes Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Surface Mount Gas Discharge Tubes Production Value

## Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States VS China: Surface Mount Gas Discharge Tubes Production Comparison

#### 4.2.1 United States VS China: Surface Mount Gas Discharge Tubes Production Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: Surface Mount Gas Discharge Tubes Production Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States VS China: Surface Mount Gas Discharge Tubes Consumption Comparison

#### 4.3.1 United States VS China: Surface Mount Gas Discharge Tubes Consumption Comparison (2021 & 2025 & 2032)

#### 4.3.2 United States VS China: Surface Mount Gas Discharge Tubes Consumption Market Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Surface Mount Gas Discharge Tubes Manufacturers and Market Share, 2021-2026

#### 4.4.1 United States Based Surface Mount Gas Discharge Tubes Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Surface Mount Gas Discharge Tubes Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers Surface Mount Gas Discharge Tubes Production (2021-2026)

### 4.5 China Based Surface Mount Gas Discharge Tubes Manufacturers and Market Share

#### 4.5.1 China Based Surface Mount Gas Discharge Tubes Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers Surface Mount Gas Discharge Tubes Production Value (2021-2026)

#### 4.5.3 China Based Manufacturers Surface Mount Gas Discharge Tubes Production (2021-2026)

### 4.6 Rest of World Based Surface Mount Gas Discharge Tubes Manufacturers and Market Share, 2021-2026

#### 4.6.1 Rest of World Based Surface Mount Gas Discharge Tubes Manufacturers, Headquarters and Production Site (State, Country)

#### 4.6.2 Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Surface Mount Gas Discharge Tubes Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Secondary Discharge Tube

5.2.2 Three-Pole Discharge Tube

5.3 Market Segment by Type

5.3.1 World Surface Mount Gas Discharge Tubes Production by Type (2021-2032)

5.3.2 World Surface Mount Gas Discharge Tubes Production Value by Type (2021-2032)

5.3.3 World Surface Mount Gas Discharge Tubes Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY OPERATING VOLTAGE**

6.1 World Surface Mount Gas Discharge Tubes Market Size Overview by Operating Voltage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Operating Voltage

6.2.1 Low Voltage

6.2.2 Medium-to-High Voltage

6.3 Market Segment by Operating Voltage

6.3.1 World Surface Mount Gas Discharge Tubes Production by Operating Voltage (2021-2032)

6.3.2 World Surface Mount Gas Discharge Tubes Production Value by Operating Voltage (2021-2032)

6.3.3 World Surface Mount Gas Discharge Tubes Average Price by Operating Voltage (2021-2032)

## **7 MARKET ANALYSIS BY CURRENT-CARRYING CAPACITY**

7.1 World Surface Mount Gas Discharge Tubes Market Size Overview by Current-Carrying Capacity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Current-Carrying Capacity

7.2.1 Low Capacity (0.5 kA-2 kA)

7.2.2 High Capacity (3 kA-10 kA and above)

7.3 Market Segment by Current-Carrying Capacity

7.3.1 World Surface Mount Gas Discharge Tubes Production by Current-Carrying Capacity (2021-2032)

7.3.2 World Surface Mount Gas Discharge Tubes Production Value by Current-Carrying Capacity (2021-2032)

7.3.3 World Surface Mount Gas Discharge Tubes Average Price by Current-Carrying Capacity (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Surface Mount Gas Discharge Tubes Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Communication and Network

8.2.2 Security and Surveillance

8.2.3 Industrial

8.2.4 Consumer Electronics

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Surface Mount Gas Discharge Tubes Production by Application (2021-2032)

8.3.2 World Surface Mount Gas Discharge Tubes Production Value by Application (2021-2032)

8.3.3 World Surface Mount Gas Discharge Tubes Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Bourns

9.1.1 Bourns Details

9.1.2 Bourns Major Business

9.1.3 Bourns Surface Mount Gas Discharge Tubes Product and Services

9.1.4 Bourns Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bourns Recent Developments/Updates

9.1.6 Bourns Competitive Strengths & Weaknesses

9.2 Littelfuse

9.2.1 Littelfuse Details

9.2.2 Littelfuse Major Business

9.2.3 Littelfuse Surface Mount Gas Discharge Tubes Product and Services

9.2.4 Littelfuse Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Littelfuse Recent Developments/Updates

9.2.6 Littelfuse Competitive Strengths & Weaknesses

### 9.3 YAGEO

#### 9.3.1 YAGEO Details

#### 9.3.2 YAGEO Major Business

#### 9.3.3 YAGEO Surface Mount Gas Discharge Tubes Product and Services

#### 9.3.4 YAGEO Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.3.5 YAGEO Recent Developments/Updates

#### 9.3.6 YAGEO Competitive Strengths & Weaknesses

### 9.4 TDK Electronics

#### 9.4.1 TDK Electronics Details

#### 9.4.2 TDK Electronics Major Business

#### 9.4.3 TDK Electronics Surface Mount Gas Discharge Tubes Product and Services

#### 9.4.4 TDK Electronics Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.4.5 TDK Electronics Recent Developments/Updates

#### 9.4.6 TDK Electronics Competitive Strengths & Weaknesses

### 9.5 Sankosha

#### 9.5.1 Sankosha Details

#### 9.5.2 Sankosha Major Business

#### 9.5.3 Sankosha Surface Mount Gas Discharge Tubes Product and Services

#### 9.5.4 Sankosha Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.5.5 Sankosha Recent Developments/Updates

#### 9.5.6 Sankosha Competitive Strengths & Weaknesses

### 9.6 Citel

#### 9.6.1 Citel Details

#### 9.6.2 Citel Major Business

#### 9.6.3 Citel Surface Mount Gas Discharge Tubes Product and Services

#### 9.6.4 Citel Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.6.5 Citel Recent Developments/Updates

#### 9.6.6 Citel Competitive Strengths & Weaknesses

### 9.7 SUNMATE

#### 9.7.1 SUNMATE Details

#### 9.7.2 SUNMATE Major Business

#### 9.7.3 SUNMATE Surface Mount Gas Discharge Tubes Product and Services

#### 9.7.4 SUNMATE Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.7.5 SUNMATE Recent Developments/Updates

- 9.7.6 SUNMATE Competitive Strengths & Weaknesses
- 9.8 THINKING
  - 9.8.1 THINKING Details
  - 9.8.2 THINKING Major Business
  - 9.8.3 THINKING Surface Mount Gas Discharge Tubes Product and Services
  - 9.8.4 THINKING Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 THINKING Recent Developments/Updates
  - 9.8.6 THINKING Competitive Strengths & Weaknesses
- 9.9 Shenzhen Ruilongyuan Electronics
  - 9.9.1 Shenzhen Ruilongyuan Electronics Details
  - 9.9.2 Shenzhen Ruilongyuan Electronics Major Business
  - 9.9.3 Shenzhen Ruilongyuan Electronics Surface Mount Gas Discharge Tubes Product and Services
  - 9.9.4 Shenzhen Ruilongyuan Electronics Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Shenzhen Ruilongyuan Electronics Recent Developments/Updates
  - 9.9.6 Shenzhen Ruilongyuan Electronics Competitive Strengths & Weaknesses
- 9.10 Socay Electronics
  - 9.10.1 Socay Electronics Details
  - 9.10.2 Socay Electronics Major Business
  - 9.10.3 Socay Electronics Surface Mount Gas Discharge Tubes Product and Services
  - 9.10.4 Socay Electronics Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Socay Electronics Recent Developments/Updates
  - 9.10.6 Socay Electronics Competitive Strengths & Weaknesses
- 9.11 Shenzhen Bencent Electronics
  - 9.11.1 Shenzhen Bencent Electronics Details
  - 9.11.2 Shenzhen Bencent Electronics Major Business
  - 9.11.3 Shenzhen Bencent Electronics Surface Mount Gas Discharge Tubes Product and Services
  - 9.11.4 Shenzhen Bencent Electronics Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Shenzhen Bencent Electronics Recent Developments/Updates
  - 9.11.6 Shenzhen Bencent Electronics Competitive Strengths & Weaknesses
- 9.12 SETsafe
  - 9.12.1 SETsafe Details
  - 9.12.2 SETsafe Major Business
  - 9.12.3 SETsafe Surface Mount Gas Discharge Tubes Product and Services

9.12.4 SETsafe Surface Mount Gas Discharge Tubes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 SETsafe Recent Developments/Updates

9.12.6 SETsafe Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Surface Mount Gas Discharge Tubes Industry Chain

10.2 Surface Mount Gas Discharge Tubes Upstream Analysis

10.2.1 Surface Mount Gas Discharge Tubes Core Raw Materials

10.2.2 Main Manufacturers of Surface Mount Gas Discharge Tubes Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Surface Mount Gas Discharge Tubes Production Mode

10.6 Surface Mount Gas Discharge Tubes Procurement Model

10.7 Surface Mount Gas Discharge Tubes Industry Sales Model and Sales Channels

10.7.1 Surface Mount Gas Discharge Tubes Sales Model

10.7.2 Surface Mount Gas Discharge Tubes Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Surface Mount Gas Discharge Tubes Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Surface Mount Gas Discharge Tubes Production Value by Region (2021-2026) & (USD Million)

Table 3. World Surface Mount Gas Discharge Tubes Production Value by Region (2027-2032) & (USD Million)

Table 4. World Surface Mount Gas Discharge Tubes Production Value Market Share by Region (2021-2026)

Table 5. World Surface Mount Gas Discharge Tubes Production Value Market Share by Region (2027-2032)

Table 6. World Surface Mount Gas Discharge Tubes Production by Region (2021-2026) & (Million Units)

Table 7. World Surface Mount Gas Discharge Tubes Production by Region (2027-2032) & (Million Units)

Table 8. World Surface Mount Gas Discharge Tubes Production Market Share by Region (2021-2026)

Table 9. World Surface Mount Gas Discharge Tubes Production Market Share by Region (2027-2032)

Table 10. World Surface Mount Gas Discharge Tubes Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Surface Mount Gas Discharge Tubes Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Surface Mount Gas Discharge Tubes Major Market Trends

Table 13. World Surface Mount Gas Discharge Tubes Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Surface Mount Gas Discharge Tubes Consumption by Region (2021-2026) & (Million Units)

Table 15. World Surface Mount Gas Discharge Tubes Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Surface Mount Gas Discharge Tubes Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Surface Mount Gas Discharge Tubes Producers in 2025

Table 18. World Surface Mount Gas Discharge Tubes Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Surface Mount Gas Discharge Tubes Producers in 2025

Table 20. World Surface Mount Gas Discharge Tubes Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Surface Mount Gas Discharge Tubes Company Evaluation Quadrant

Table 22. World Surface Mount Gas Discharge Tubes Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Surface Mount Gas Discharge Tubes Production Site of Key Manufacturer

Table 24. Surface Mount Gas Discharge Tubes Market: Company Product Type Footprint

Table 25. Surface Mount Gas Discharge Tubes Market: Company Product Application Footprint

Table 26. Surface Mount Gas Discharge Tubes Competitive Factors

Table 27. Surface Mount Gas Discharge Tubes New Entrant and Capacity Expansion Plans

Table 28. Surface Mount Gas Discharge Tubes Mergers & Acquisitions Activity

Table 29. United States VS China Surface Mount Gas Discharge Tubes Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Surface Mount Gas Discharge Tubes Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Surface Mount Gas Discharge Tubes Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Surface Mount Gas Discharge Tubes Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Surface Mount Gas Discharge Tubes Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Surface Mount Gas Discharge Tubes Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Surface Mount Gas Discharge Tubes Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Surface Mount Gas Discharge Tubes Production Market Share (2021-2026)

Table 37. China Based Surface Mount Gas Discharge Tubes Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Surface Mount Gas Discharge Tubes Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Surface Mount Gas Discharge Tubes Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Surface Mount Gas Discharge Tubes Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Surface Mount Gas Discharge Tubes Production Market Share (2021-2026)

Table 42. Rest of World Based Surface Mount Gas Discharge Tubes Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production Market Share (2021-2026)

Table 47. World Surface Mount Gas Discharge Tubes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Surface Mount Gas Discharge Tubes Production by Type (2021-2026) & (Million Units)

Table 49. World Surface Mount Gas Discharge Tubes Production by Type (2027-2032) & (Million Units)

Table 50. World Surface Mount Gas Discharge Tubes Production Value by Type (2021-2026) & (USD Million)

Table 51. World Surface Mount Gas Discharge Tubes Production Value by Type (2027-2032) & (USD Million)

Table 52. World Surface Mount Gas Discharge Tubes Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Surface Mount Gas Discharge Tubes Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Surface Mount Gas Discharge Tubes Production Value by Operating Voltage, (USD Million), 2021 & 2025 & 2032

Table 55. World Surface Mount Gas Discharge Tubes Production by Operating Voltage (2021-2026) & (Million Units)

Table 56. World Surface Mount Gas Discharge Tubes Production by Operating Voltage (2027-2032) & (Million Units)

Table 57. World Surface Mount Gas Discharge Tubes Production Value by Operating Voltage (2021-2026) & (USD Million)

Table 58. World Surface Mount Gas Discharge Tubes Production Value by Operating Voltage (2027-2032) & (USD Million)

Table 59. World Surface Mount Gas Discharge Tubes Average Price by Operating

Voltage (2021-2026) & (US\$/Unit)

Table 60. World Surface Mount Gas Discharge Tubes Average Price by Operating Voltage (2027-2032) & (US\$/Unit)

Table 61. World Surface Mount Gas Discharge Tubes Production Value by Current-Carrying Capacity, (USD Million), 2021 & 2025 & 2032

Table 62. World Surface Mount Gas Discharge Tubes Production by Current-Carrying Capacity (2021-2026) & (Million Units)

Table 63. World Surface Mount Gas Discharge Tubes Production by Current-Carrying Capacity (2027-2032) & (Million Units)

Table 64. World Surface Mount Gas Discharge Tubes Production Value by Current-Carrying Capacity (2021-2026) & (USD Million)

Table 65. World Surface Mount Gas Discharge Tubes Production Value by Current-Carrying Capacity (2027-2032) & (USD Million)

Table 66. World Surface Mount Gas Discharge Tubes Average Price by Current-Carrying Capacity (2021-2026) & (US\$/Unit)

Table 67. World Surface Mount Gas Discharge Tubes Average Price by Current-Carrying Capacity (2027-2032) & (US\$/Unit)

Table 68. World Surface Mount Gas Discharge Tubes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Surface Mount Gas Discharge Tubes Production by Application (2021-2026) & (Million Units)

Table 70. World Surface Mount Gas Discharge Tubes Production by Application (2027-2032) & (Million Units)

Table 71. World Surface Mount Gas Discharge Tubes Production Value by Application (2021-2026) & (USD Million)

Table 72. World Surface Mount Gas Discharge Tubes Production Value by Application (2027-2032) & (USD Million)

Table 73. World Surface Mount Gas Discharge Tubes Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Surface Mount Gas Discharge Tubes Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Bourns Basic Information, Manufacturing Base and Competitors

Table 76. Bourns Major Business

Table 77. Bourns Surface Mount Gas Discharge Tubes Product and Services

Table 78. Bourns Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bourns Recent Developments/Updates

Table 80. Bourns Competitive Strengths & Weaknesses

- Table 81. Littelfuse Basic Information, Manufacturing Base and Competitors
- Table 82. Littelfuse Major Business
- Table 83. Littelfuse Surface Mount Gas Discharge Tubes Product and Services
- Table 84. Littelfuse Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Littelfuse Recent Developments/Updates
- Table 86. Littelfuse Competitive Strengths & Weaknesses
- Table 87. YAGEO Basic Information, Manufacturing Base and Competitors
- Table 88. YAGEO Major Business
- Table 89. YAGEO Surface Mount Gas Discharge Tubes Product and Services
- Table 90. YAGEO Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. YAGEO Recent Developments/Updates
- Table 92. YAGEO Competitive Strengths & Weaknesses
- Table 93. TDK Electronics Basic Information, Manufacturing Base and Competitors
- Table 94. TDK Electronics Major Business
- Table 95. TDK Electronics Surface Mount Gas Discharge Tubes Product and Services
- Table 96. TDK Electronics Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. TDK Electronics Recent Developments/Updates
- Table 98. TDK Electronics Competitive Strengths & Weaknesses
- Table 99. Sankosha Basic Information, Manufacturing Base and Competitors
- Table 100. Sankosha Major Business
- Table 101. Sankosha Surface Mount Gas Discharge Tubes Product and Services
- Table 102. Sankosha Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Sankosha Recent Developments/Updates
- Table 104. Sankosha Competitive Strengths & Weaknesses
- Table 105. Citel Basic Information, Manufacturing Base and Competitors
- Table 106. Citel Major Business
- Table 107. Citel Surface Mount Gas Discharge Tubes Product and Services
- Table 108. Citel Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Citel Recent Developments/Updates

- Table 110. Citel Competitive Strengths & Weaknesses
- Table 111. SUNMATE Basic Information, Manufacturing Base and Competitors
- Table 112. SUNMATE Major Business
- Table 113. SUNMATE Surface Mount Gas Discharge Tubes Product and Services
- Table 114. SUNMATE Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. SUNMATE Recent Developments/Updates
- Table 116. SUNMATE Competitive Strengths & Weaknesses
- Table 117. THINKING Basic Information, Manufacturing Base and Competitors
- Table 118. THINKING Major Business
- Table 119. THINKING Surface Mount Gas Discharge Tubes Product and Services
- Table 120. THINKING Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. THINKING Recent Developments/Updates
- Table 122. THINKING Competitive Strengths & Weaknesses
- Table 123. Shenzhen Ruilongyuan Electronics Basic Information, Manufacturing Base and Competitors
- Table 124. Shenzhen Ruilongyuan Electronics Major Business
- Table 125. Shenzhen Ruilongyuan Electronics Surface Mount Gas Discharge Tubes Product and Services
- Table 126. Shenzhen Ruilongyuan Electronics Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Shenzhen Ruilongyuan Electronics Recent Developments/Updates
- Table 128. Shenzhen Ruilongyuan Electronics Competitive Strengths & Weaknesses
- Table 129. Socay Electronics Basic Information, Manufacturing Base and Competitors
- Table 130. Socay Electronics Major Business
- Table 131. Socay Electronics Surface Mount Gas Discharge Tubes Product and Services
- Table 132. Socay Electronics Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Socay Electronics Recent Developments/Updates
- Table 134. Socay Electronics Competitive Strengths & Weaknesses
- Table 135. Shenzhen Bencent Electronics Basic Information, Manufacturing Base and Competitors
- Table 136. Shenzhen Bencent Electronics Major Business

Table 137. Shenzhen Bencent Electronics Surface Mount Gas Discharge Tubes Product and Services

Table 138. Shenzhen Bencent Electronics Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shenzhen Bencent Electronics Recent Developments/Updates

Table 140. Shenzhen Bencent Electronics Competitive Strengths & Weaknesses

Table 141. SETsafe Basic Information, Manufacturing Base and Competitors

Table 142. SETsafe Major Business

Table 143. SETsafe Surface Mount Gas Discharge Tubes Product and Services

Table 144. SETsafe Surface Mount Gas Discharge Tubes Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. SETsafe Recent Developments/Updates

Table 146. SETsafe Competitive Strengths & Weaknesses

Table 147. Global Key Players of Surface Mount Gas Discharge Tubes Upstream (Raw Materials)

Table 148. Global Surface Mount Gas Discharge Tubes Typical Customers

Table 149. Surface Mount Gas Discharge Tubes Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Surface Mount Gas Discharge Tubes Picture

Figure 2. World Surface Mount Gas Discharge Tubes Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Surface Mount Gas Discharge Tubes Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Surface Mount Gas Discharge Tubes Production (2021-2032) & (Million Units)

Figure 5. World Surface Mount Gas Discharge Tubes Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Surface Mount Gas Discharge Tubes Production Value Market Share by Region (2021-2032)

Figure 7. World Surface Mount Gas Discharge Tubes Production Market Share by Region (2021-2032)

Figure 8. North America Surface Mount Gas Discharge Tubes Production (2021-2032) & (Million Units)

Figure 9. Europe Surface Mount Gas Discharge Tubes Production (2021-2032) & (Million Units)

Figure 10. China Surface Mount Gas Discharge Tubes Production (2021-2032) & (Million Units)

Figure 11. Japan Surface Mount Gas Discharge Tubes Production (2021-2032) & (Million Units)

Figure 12. South Korea Surface Mount Gas Discharge Tubes Production (2021-2032) & (Million Units)

Figure 13. Surface Mount Gas Discharge Tubes Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 16. World Surface Mount Gas Discharge Tubes Consumption Market Share by Region (2021-2032)

Figure 17. United States Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 18. China Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 19. Europe Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 20. Japan Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 21. South Korea Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 23. India Surface Mount Gas Discharge Tubes Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of Surface Mount Gas Discharge Tubes by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Surface Mount Gas Discharge Tubes Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Surface Mount Gas Discharge Tubes Markets in 2025

Figure 27. United States VS China: Surface Mount Gas Discharge Tubes Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Surface Mount Gas Discharge Tubes Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Surface Mount Gas Discharge Tubes Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Surface Mount Gas Discharge Tubes Production Market Share 2025

Figure 31. China Based Manufacturers Surface Mount Gas Discharge Tubes Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Surface Mount Gas Discharge Tubes Production Market Share 2025

Figure 33. World Surface Mount Gas Discharge Tubes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Surface Mount Gas Discharge Tubes Production Value Market Share by Type in 2025

Figure 35. Secondary Discharge Tube

Figure 36. Three-Pole Discharge Tube

Figure 37. World Surface Mount Gas Discharge Tubes Production Market Share by Type (2021-2032)

Figure 38. World Surface Mount Gas Discharge Tubes Production Value Market Share by Type (2021-2032)

Figure 39. World Surface Mount Gas Discharge Tubes Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Surface Mount Gas Discharge Tubes Production Value by Operating

Voltage, (USD Million), 2021 & 2025 & 2032

Figure 41. World Surface Mount Gas Discharge Tubes Production Value Market Share by Operating Voltage in 2025

Figure 42. Low Voltage

Figure 43. Medium-to-High Voltage

Figure 44. World Surface Mount Gas Discharge Tubes Production Market Share by Operating Voltage (2021-2032)

Figure 45. World Surface Mount Gas Discharge Tubes Production Value Market Share by Operating Voltage (2021-2032)

Figure 46. World Surface Mount Gas Discharge Tubes Average Price by Operating Voltage (2021-2032) & (US\$/Unit)

Figure 47. World Surface Mount Gas Discharge Tubes Production Value by Current-Carrying Capacity, (USD Million), 2021 & 2025 & 2032

Figure 48. World Surface Mount Gas Discharge Tubes Production Value Market Share by Current-Carrying Capacity in 2025

Figure 49. Low Capacity (0.5 kA-2 kA)

Figure 50. High Capacity (3 kA-10 kA and above)

Figure 51. World Surface Mount Gas Discharge Tubes Production Market Share by Current-Carrying Capacity (2021-2032)

Figure 52. World Surface Mount Gas Discharge Tubes Production Value Market Share by Current-Carrying Capacity (2021-2032)

Figure 53. World Surface Mount Gas Discharge Tubes Average Price by Current-Carrying Capacity (2021-2032) & (US\$/Unit)

Figure 54. World Surface Mount Gas Discharge Tubes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Surface Mount Gas Discharge Tubes Production Value Market Share by Application in 2025

Figure 56. Communication and Network

Figure 57. Security and Surveillance

Figure 58. Industrial

Figure 59. Consumer Electronics

Figure 60. Other

Figure 61. World Surface Mount Gas Discharge Tubes Production Market Share by Application (2021-2032)

Figure 62. World Surface Mount Gas Discharge Tubes Production Value Market Share by Application (2021-2032)

Figure 63. World Surface Mount Gas Discharge Tubes Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Surface Mount Gas Discharge Tubes Industry Chain

Figure 65. Surface Mount Gas Discharge Tubes Procurement Model

Figure 66. Surface Mount Gas Discharge Tubes Sales Model

Figure 67. Surface Mount Gas Discharge Tubes Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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