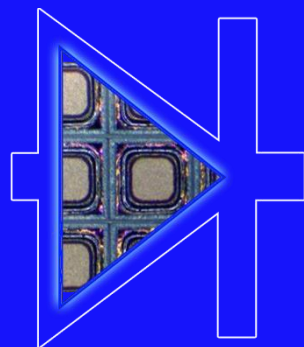


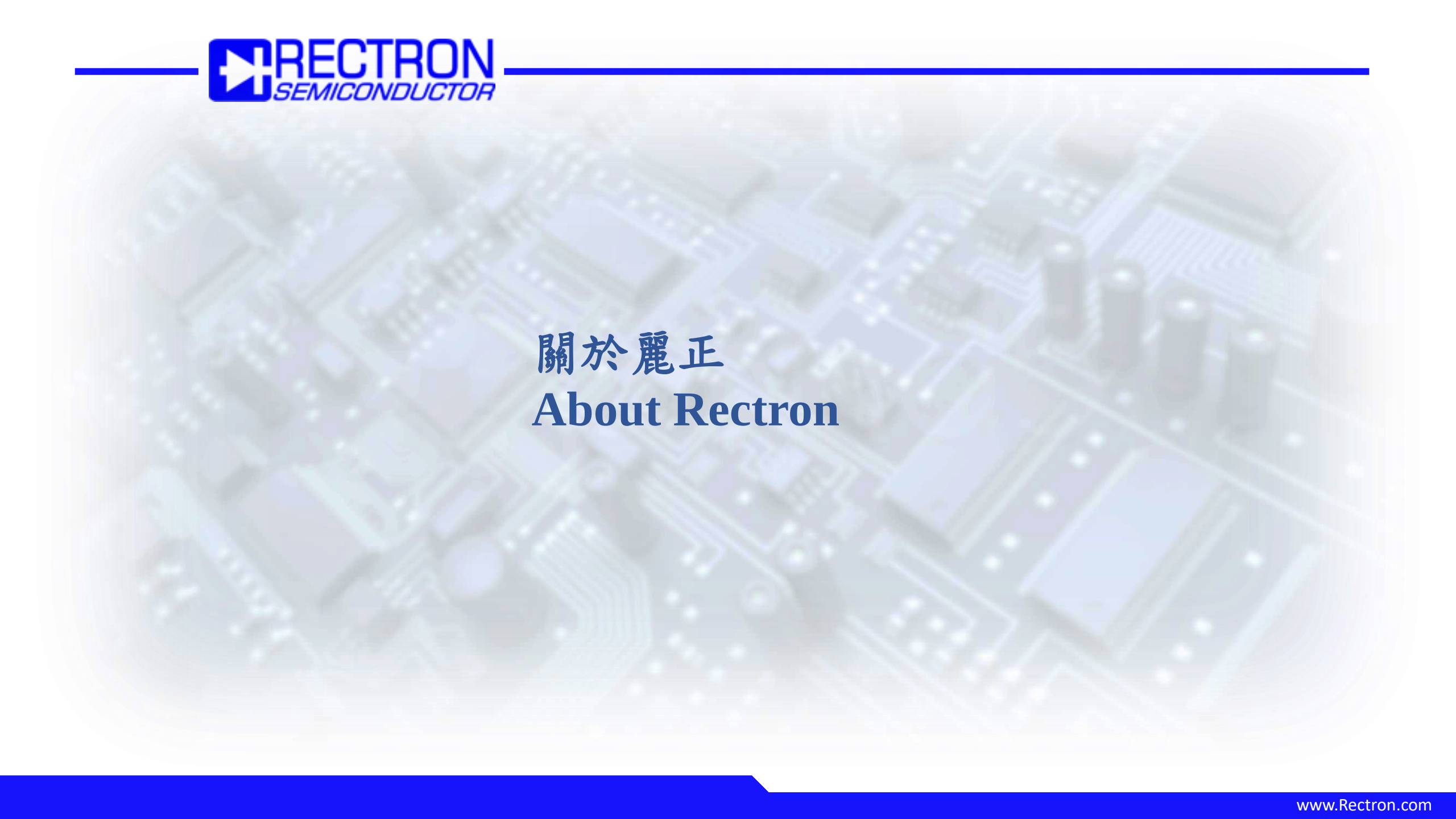


Rectron Ltd. Dec 2021

麗正國際科技股份有限公司

A Discrete Semiconductor Manufacturer

Bridge Rectifiers | ESD Diodes | High Voltage | Recovery Rectifiers |
Schottky Diodes | Signal-switching Diodes | Silicon Carbide Schottky |
Transistors | TVS Diodes | Zener Diodes | MOSFET

The background of the slide is a faded, light blue image of a complex electronic circuit board, showing various components like chips, capacitors, and intricate wiring patterns.

關於麗正 About Rectron

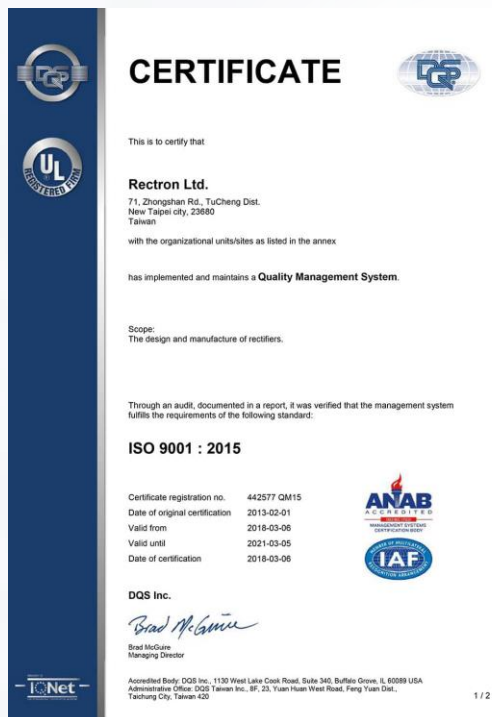
Rectron Ltd. 麗正國際科技股份有限公司

- 成立 Established: 1976.1.23
- 資本額 Capital: NT\$ 16億元
- 董事長 Chairmen : 林怡岑
- 總部 Headquarter: 台北市士林區承德路4段192-2號
- 工廠 Factory Locations: Tu-Cheng, Taipei, Taiwan 台灣 土城廠
JiaShan, ZjheJiang, China 大陸 浙江廠
- 主營業項目 Main Business : Rectifier /Transistor(MOSFET)/SiC
manufacture &sale
整流器/電晶體/碳化矽等, 生產製造及買賣

年表 Chronology



各項證書 Certifications



ISO-9001



IAFT-16949



ISO-14001



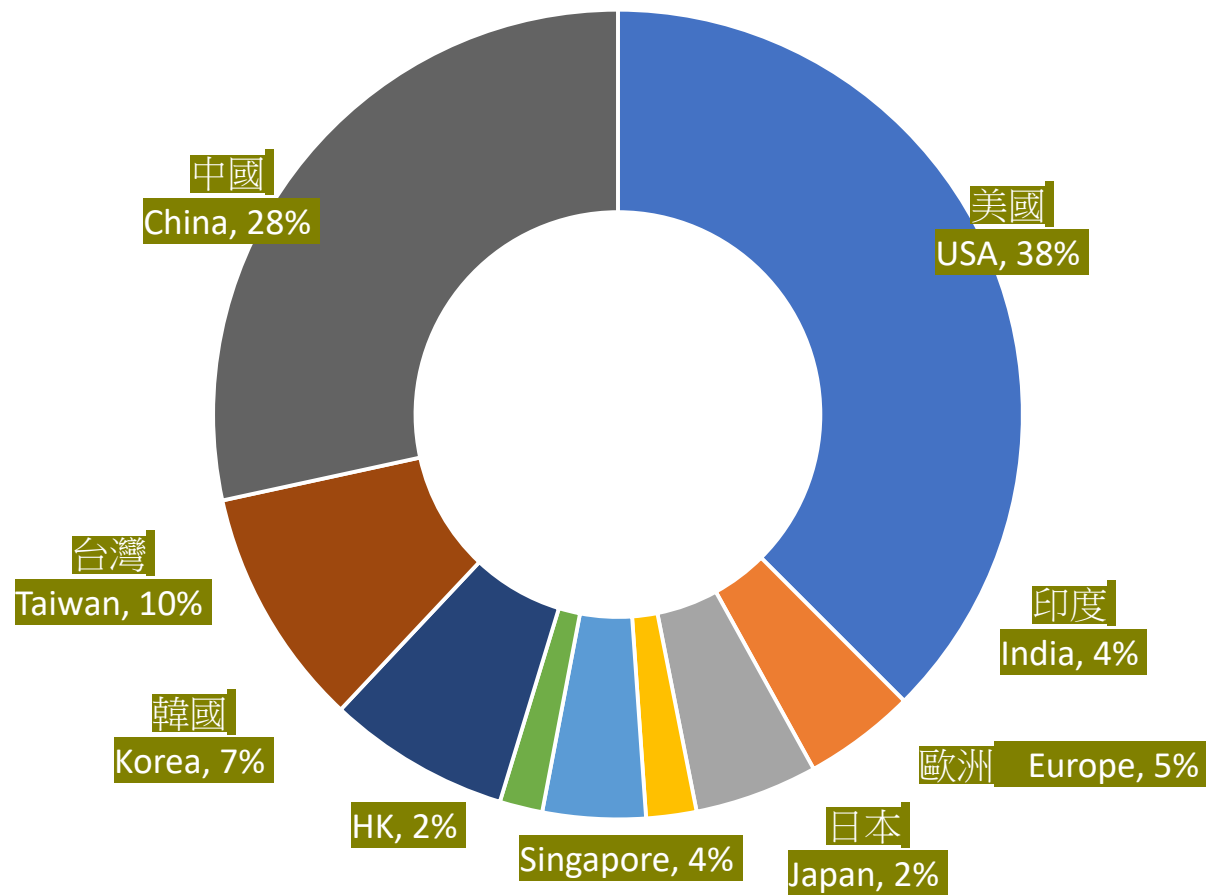
ISO-45001

麗正全球據點

Global Sales and Factory location



2021.前三季分區營收情況 Marketing Analysis | **By Territory**



Financial Information

財務資訊

主要財務資訊(Key Financial Information)

NT , 000	<u>2019</u>	<u>2020</u>	<u>2021 Q3</u>
營業額(Revenue)	498, 284	759, 358	563, 160
營業毛利(Gross Profit)	151, 808	295, 044	187, 668
毛利率(GP rate)	30%	39%	33%

營收結構(Revenue Structure)

NT, 000	<u>2019</u>	<u>2020</u>	<u>2021 Q3</u>
二極體(Discrete)	463, 307	488, 722	485, 595
醫療器材(medical device)	—	235, 080	52, 241
其他 (others)	34, 977	35, 556	25, 324

Product Introduction

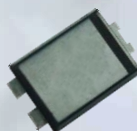
產品資訊

分離式器件 Discrete rectifiers



玻璃內鈍化晶粒 Glass passivated
蕭特基 Schottky(20-200V)
快恢復 Fast recovery(20-500ns)
高壓 二極管 High Voltage(1KV-16KV)

功率二極管 Power Diodes



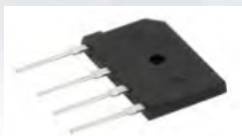
10A安培 – 50A安培
旁路二極管 Bypass Diodes

橋式整流器 Bridge rectifiers



雙列直插DIP/單列直插SIP, 迷你橋 mini-dip

0.5A - 35A單列橋式整流器
single in line bridges



玻璃內鈍化晶粒 Glass passivated

瞬間電壓抑止器TVS/靜電保護 Zeners/穩壓管ESD

400 – 5000W瞬間電壓抑止器TVS
200mW – 5W靜電保護Zeners
低容抗靜電保護陣列 Low Cap. ESD Arrays



電晶體 Transistors

溝槽式場效電晶體 Trench MOSFET

- Low $r_{ds(on)}$ & C_g
- 2 to 10m Ω

高電壓第三代場效電晶體 High MOSFET

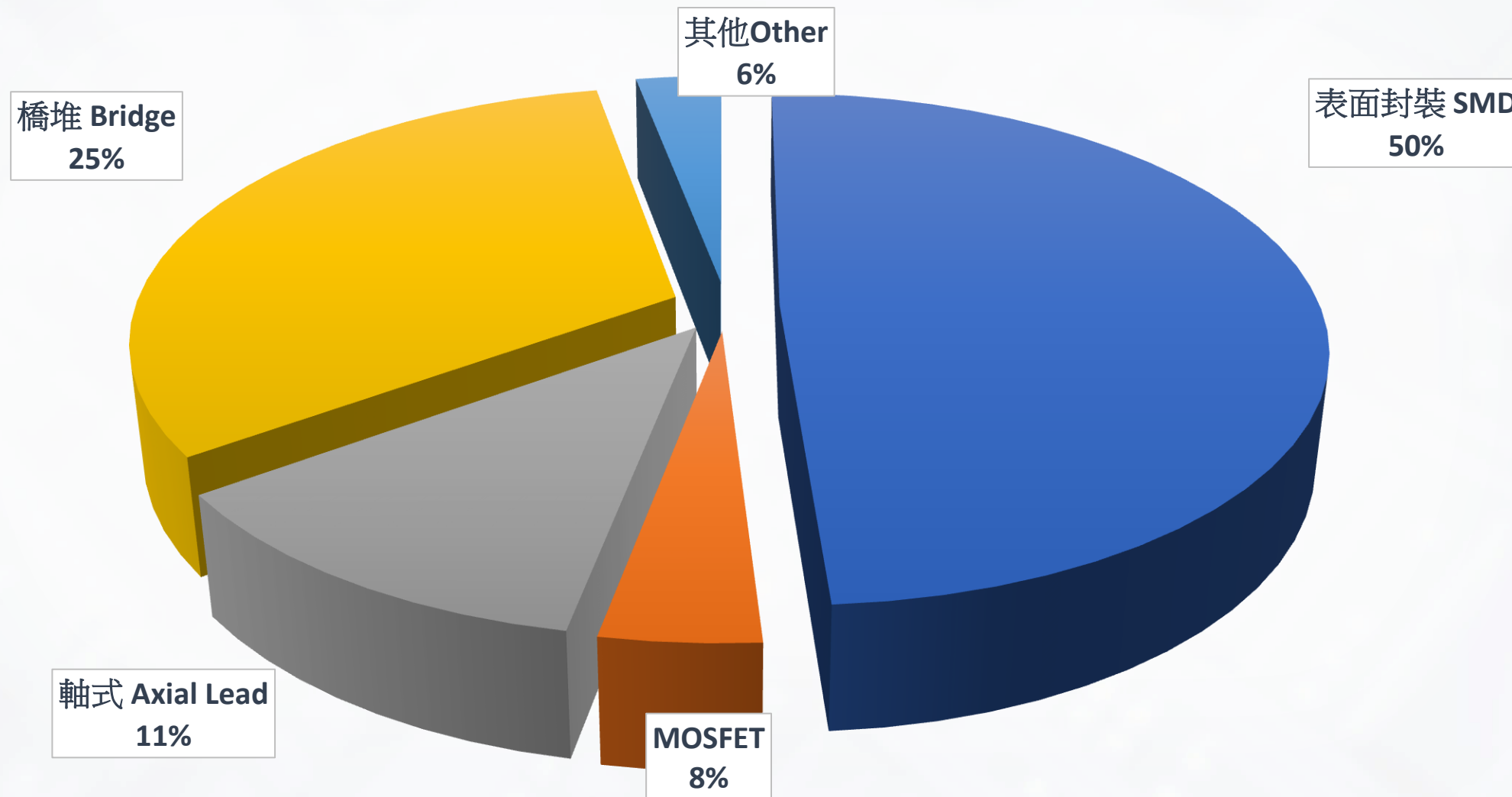
- 600V to 800V
- 5 to 17A

PNP/NPN & 達靈頓 Darlington

- 小訊號 signal & 功率 power



2021前3季產品別比例 Product Analysis | By Type





D3K



SOD-523

Diodes & Rectifiers 分離式氣件



橋堆Bridges (0.5A - 35A)



肖特基Schottky (20-200V)



快回復Fast recovery (20-500ns)

高電壓High voltage (1KV-16KV)

超快回復FRED Rectifiers

Glass passivated

碳化矽蕭特基
SiC Schottky



650V-1700V, 2A-40A

TVS / ESD / Zeners 穩壓管等

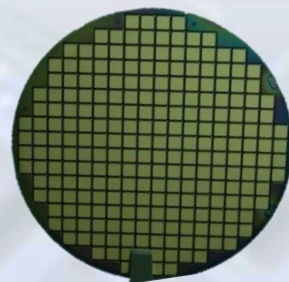


400 – 5000W TVS

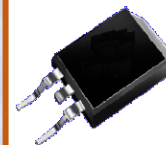


200mW – 5W Zeners

Low Cap. ESD Arrays



Transistors 電晶體等



金屬-氧化層 半導體場效晶體管
MOSFET

Signal & Power

PNP/NPN

Darlington

S-Trench MOSFET 電晶體等



低導通電阻Low $r_{ds(on)}$ x
 C_g (FoM)

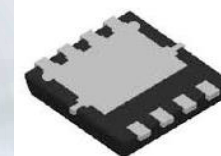
1 to 10mΩ ; 30-100V
Compare to: STripFET™
Power Trench, OptiMOS™

HV Gen3 MOSFET 電晶體等

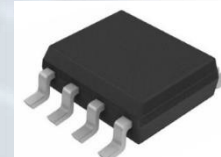


600V to 800V

5 to 17A, low $r_{ds(on)}$
Compare to: CoolMOS™



DFN5X6-8L



SOP-8

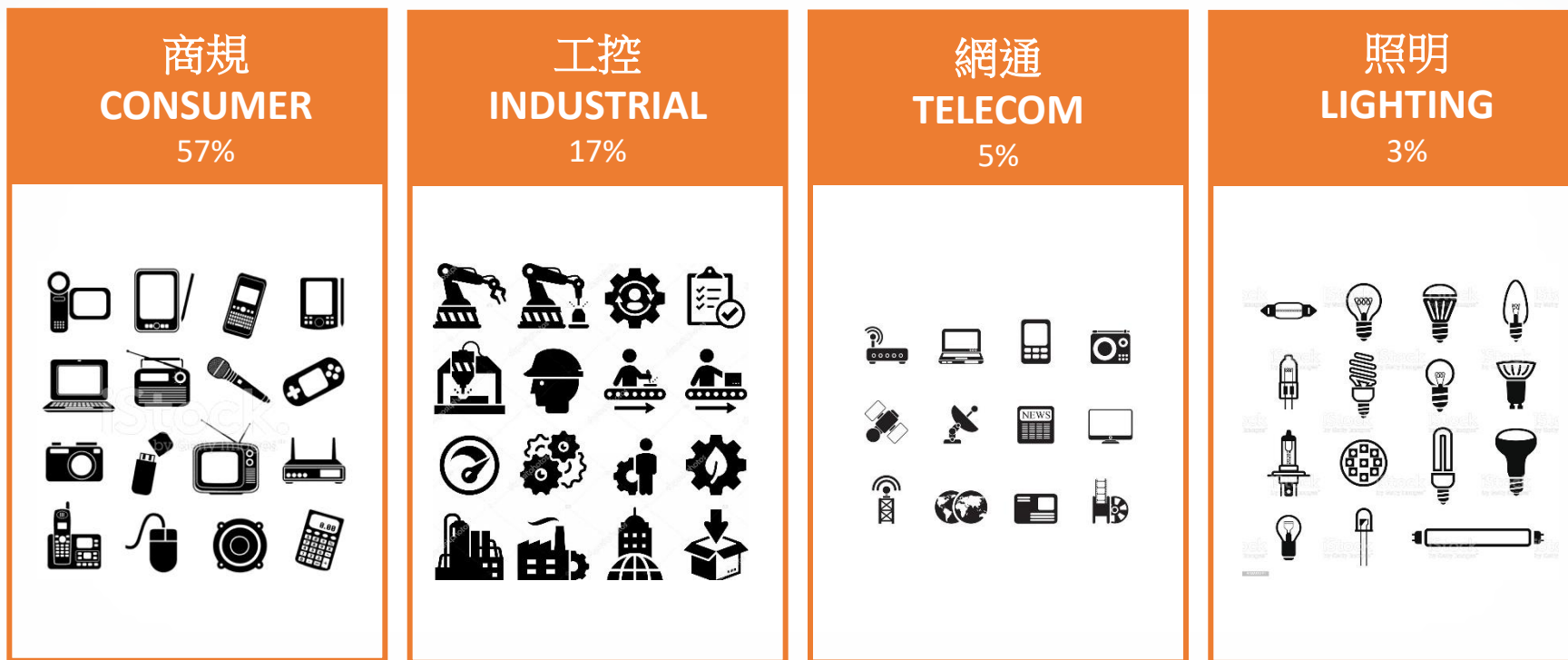


TO-247

新產品New Product Line

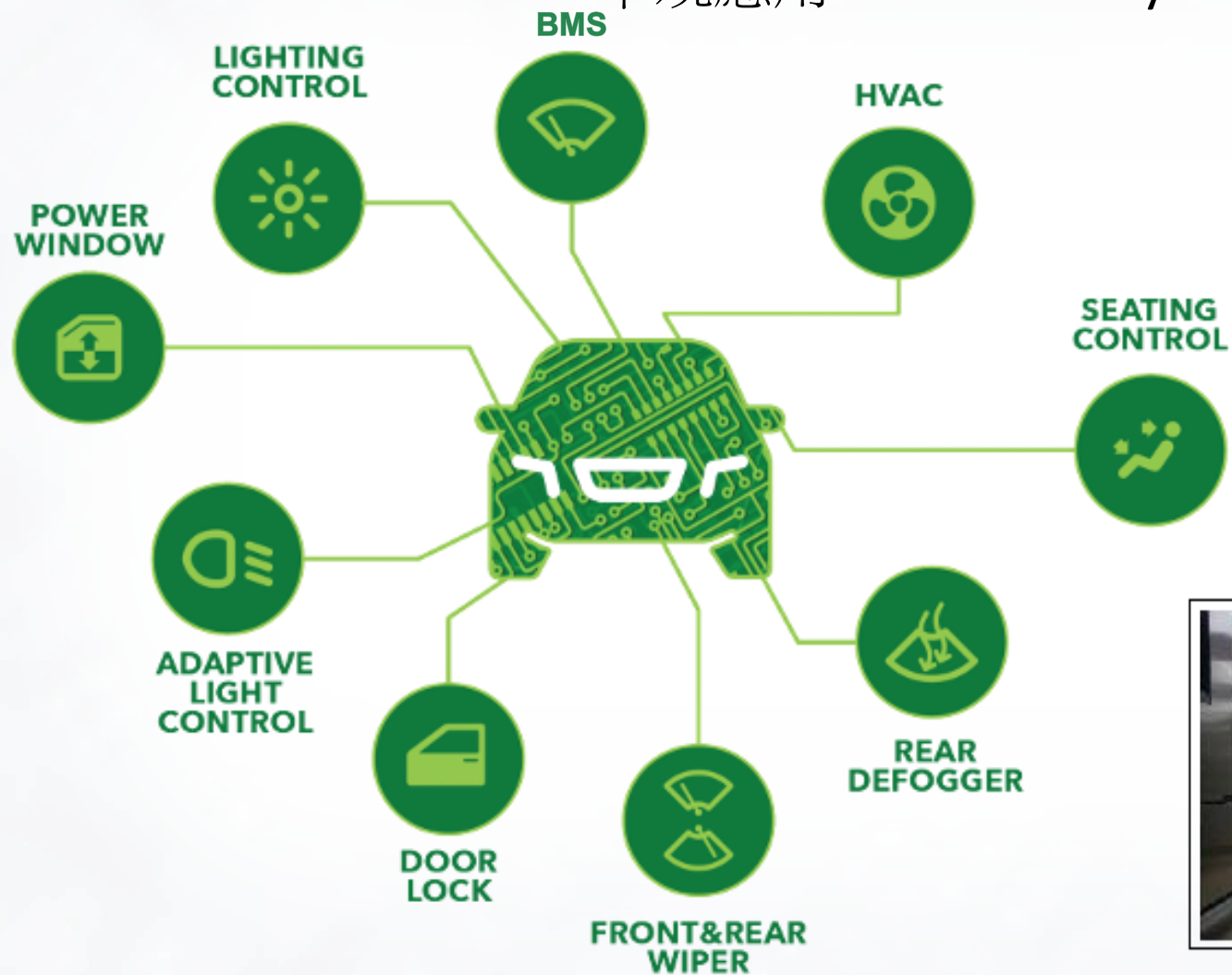
應用分析

Product Analysis | By Application



車規
Automotive
18%

車規應用 Product Analysis | Automotive



車規級可靠性實驗室

Hi-Rel screening performed to
AEC-Q101 standards



主客戶群Major Customers

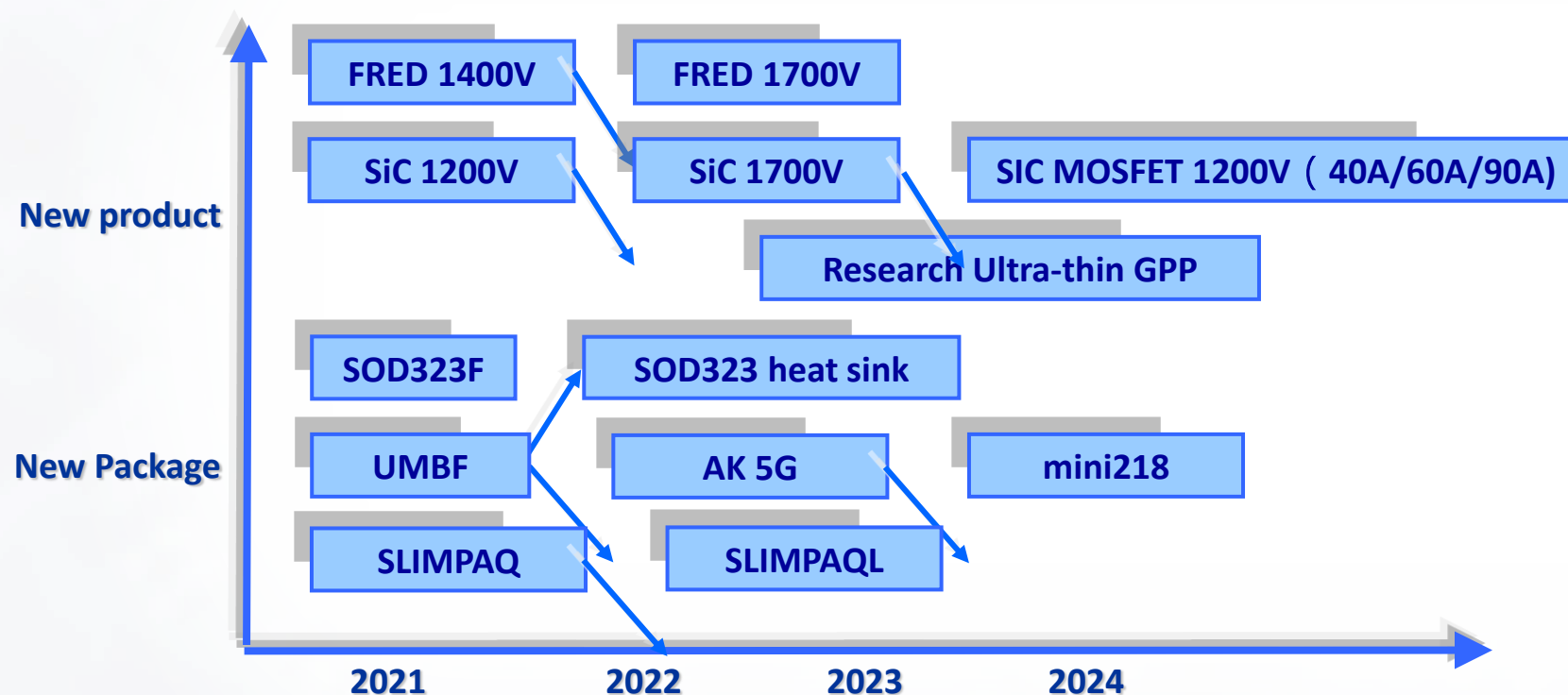


Automotive Customers



新產品開發進度及2022年後目標應用 Road Map and Target Application

新產品開發進度表 RD Road map 2022-2024



碳化硅蕭特基
SIC Schottky

Voltage: 600V- 1200 V
Ampere : 5~20 A

太陽能特別封裝
Solar speical package
low Vf with 15-20A

碳化硅Mosfet
SIC Mosfet
voltage 1200V,
with 30Ampere -90A

Trench Mosfet
溝槽式場效電晶體
Voltage: 30~650V,
Schottky low Vf and
200voltage
TVS for
differentpackage

電動車市場
Electric Car in Korea,
China, India, Vietnam
(including 2 wheeles)

標準式和低壓降橋堆
Bridge 50V-1400V
Bridge with low Vf
0.95 with 800V
Three-phase bridge

工業控制電源，智能穿戴
人工智能應用
Industry power supply
AI Application-TWS, AR。



Thank You

RECTRON
SEMICONDUCTOR

A Discrete Semiconductor Manufacturer

English ▾



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let us be your natural choice for
discrete semiconductors"

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Contact us for Catalogs & Samples

Click here too request samples and literature for any
of Rectron's discrete semiconductors...

Product Line

- Bridge Rectifiers
- ESD Diodes
- High Voltage
- Recovery Rectifiers
- Schottky Diodes
- Signal-Switching Diodes
- Silicon Carbide Schottky
- Standard Rectifiers
- Transistors
- TVS Diodes
- Zener Diodes
- MOSFET
- More...

Company Profile

Sales Contacts

Factory Sites

Quality/Applications

Rectron or Industry P/N please

Go