



英屬開曼群島商

虹揚發展科技股份有限公司

HY Electronic (Cayman) Limited



CAMEL GECO ELETTRONICA S.r.l.

Authorized Italian Distributor

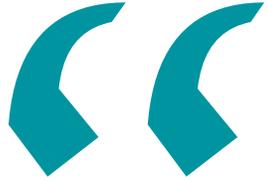
Company Introduction

Stock code : 6573





Business Philosophy & Core Value



HY is a professional manufacturer which mainly engaged in the design, development, manufacture and sale power discrete semiconductors. We provide best quality products according to its superior R&D team, automatic production and strictly quality control system. In addition, bases on complete product combination, HY fully offer total solutions to our customers.

HY is the transliteration abbreviation of the company's Chinese name. It means that we hope we could have open mind and carry forward the right path and the best.

HY's sales networks are distributed all over the world. We have 17 sales offices located in the main cities of China. Moreover, Taipei branch office is responsible for the sales in Taiwan and the oversea marked areas. Except HY own brand, we also offer OEM, ODM and OBM services to many well-known companies around the world.

HY will try its best to provide valuable products and services and continuously targets to a professional total solution provider.





Locations



**HY Electronic (Cayman)
Limited Taiwan Branch**

Square measure : 1,500 M2
Employees : 70
Task : HY group management
and global sales



**YangZhou HY Technology
Development Co., Ltd.**

Square measure : 60,000 M2
Employees : 500
Task : Production & China sales
Capacity per month :
200 kk pcs (Package)
100,000 pcs (Wafer)



Milestones

1984



HY Built up in Taipei

1992



Established factory in Yangzhou, China

2000



ISO9000 certified

2006



ISO14001 certified

2008



Passed ISO/TS16949 certification

2009



Established HY Electronic (Cayman) Limited in the British Cayman Islands

2010



Set Up 3" GPP Wafer Fab

2012



Acquired SONY Green Partner Certification

2013



Obtained 14 patents
Got Innovation Company Certification
Set up Press fit production line

2014



Set Up 4" GPP Wafer Fab
Obtained 29 patents
Low VF Bridge rectifiers

2015



Ultra low VF Bridge Low VF Schottky Diode
Obtained 36 patents

2016



Obtained 12 patents
Set Up Solar schottky wafer
Set Up Solar Module

2017



HY became a publicly traded company listed in Taiwan

2018



Got 70% shareholding of TGI
HY second factory Re-layout

2019



HY Yangzhou ceremony of new plant

2020



Obtained 12 patents
MOSFET products come out
SiC Schottky diodes come out

2021



Obtained 34 patents



Products Overview



DIODES

Standard Rectifiers · FAST Recovery Diode · High Efficiency and Ultra Fast Recovery Diode · Superfast Recovery Rectifiers · Schottky Rectifiers · Low VF Schottky Barrier Diode · High Voltage Glass Passivated Rectifiers · PV Solar Cell Protection Schottky Rectifiers · Silicon Carbide Schottky Diodes



BRIDGE RECTIFIERS

Standard Bridge Rectifiers · Low VF Bridge Rectifiers · Fast Recovery Bridge Rectifiers · Three-phase Bridge Rectifiers · Schottky Barrier Bridge Rectifiers



Protection Device

Transient Voltage Suppressors Diode (TVS) · Zener Diode · Electrical Static Discharge Guard



Small Signal Diode

Schottky Rectifiers · Switching Diode · Zener Diode · Electrical Static Discharge Guard · TRANSISTOR



AUTOMOTIVE DIODES

Standard Rectifiers · Schottky Rectifiers · High Efficiency and Ultra Fast Recovery Diode · Superfast Recovery Rectifiers · Bridge Rectifiers · Transient Voltage Suppressors Diode (TVS)



MOSFET

Synchronous Rectification MosFETs · Super Junction MosFETs · Wide Band Gap Semiconductor



Power Module

Diode Modules



Press Fit

Press Fit



Applications

SMPS

Adapter/Charger/Server
Power/Open Frame Power



Automotive

Car/Motorcycle/Electric Vehicle



Consumer Electronics

3C/Home Appliances



Green Energy

Solar Junction Box/Inverter



Communications

Network Equipment/Mobile
Phones/Digital Cameras



Lighting

LED Drive Power



Industrial Equipment

Power/Motor/Drivers/Inverter



Security System

System Controller / Alarm /
Lighting Power Supply



Smart Home

Smart Home Appliances/Smart
Meters/Display



Medical Equipment

Medical equipment power supply in
the health industry





Product Roadmap

2022

2023

2024



□ Auto TVS

□ ULV GBU/GBJ

- Small Signal Transistor
- Small Signal Zener
- Small Signal Switching Diode
- Small Signal SKY MOS

- Auto LV TVS
- SM Bridge 2A~10A
- SKY Bridge ABS 40V

- Auto ESD
- SHV Diode Multiple Dice 10KV ↑
- ABS 2A/1000V IFSM>70A

- TO/ITO-220 LV 0.4~0.45V/60V 20~30A

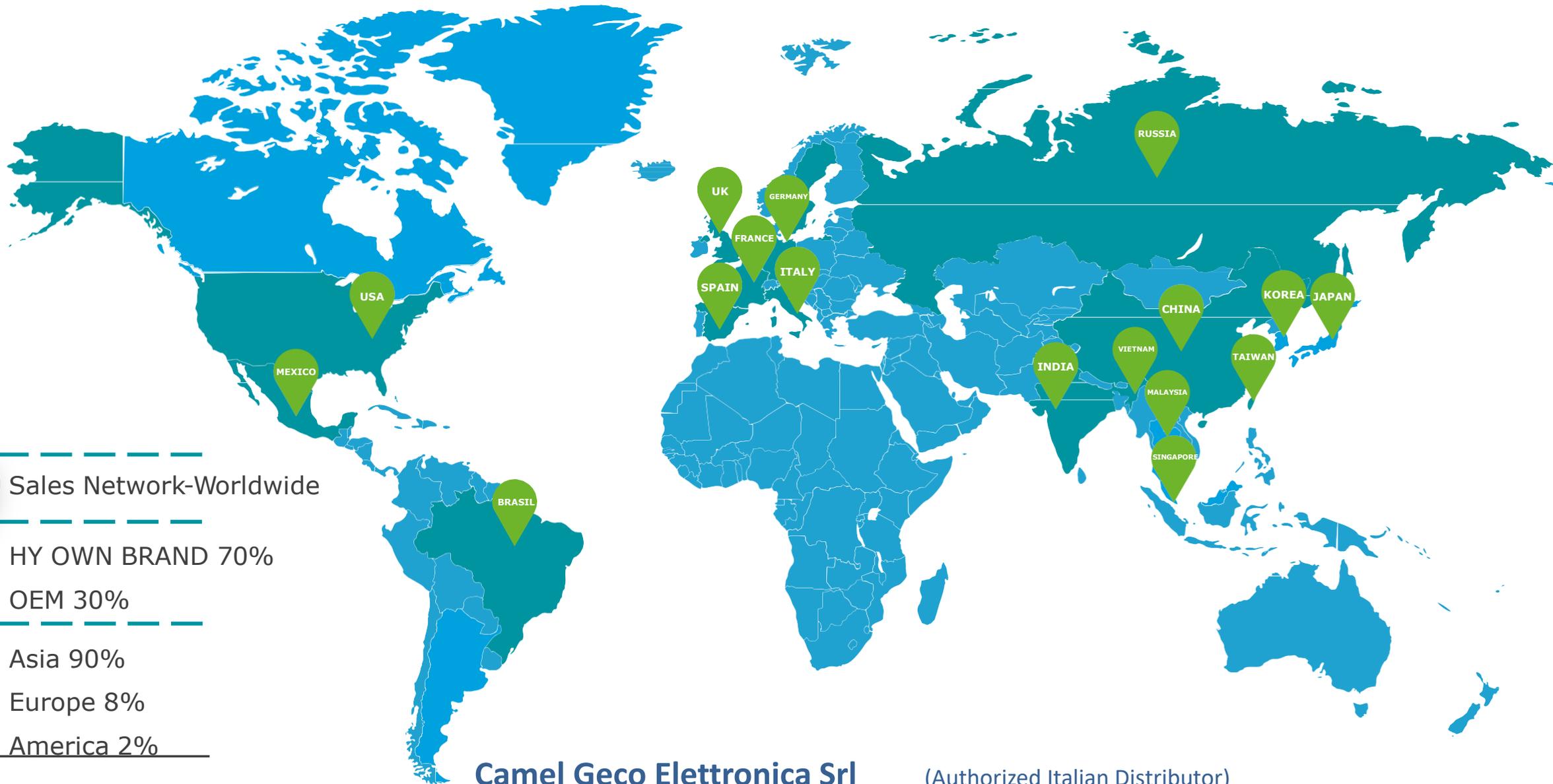
- ESD Low Clamping/LV with Surge Function

- SiC Schottky TO-247 10A/1200V
- D3K 2A~4A/1000V Trr<350ns
- FRD Bridge 2A~4A 1000V

- SiC MOSFET TO-263 10A/1200V
- MSBL 4A/1000V
- NTT 4A/1000V VF<0.95V



Sales Network-Worldwide



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HY OWN BRAND 70%

OEM 30%

Asia 90%

Europe 8%

America 2%

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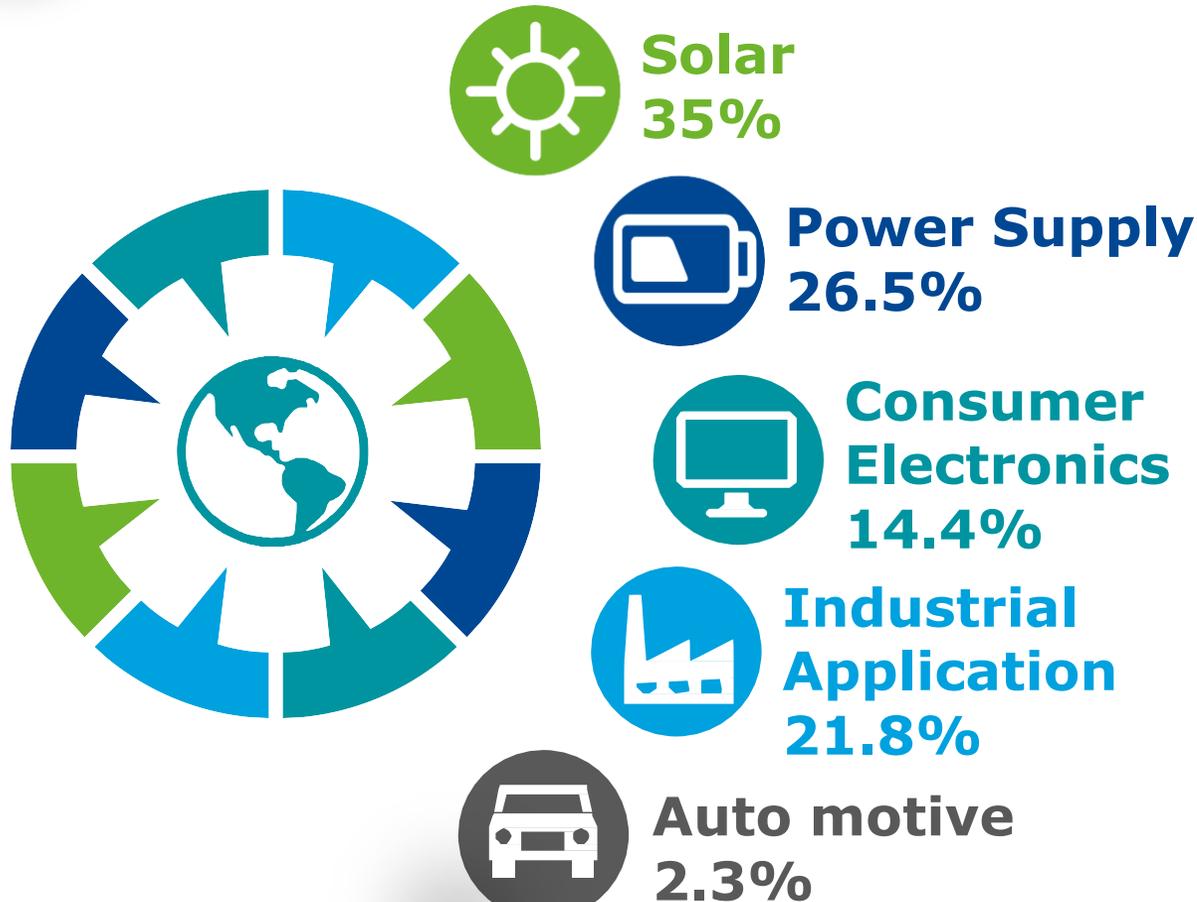
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other Proportion



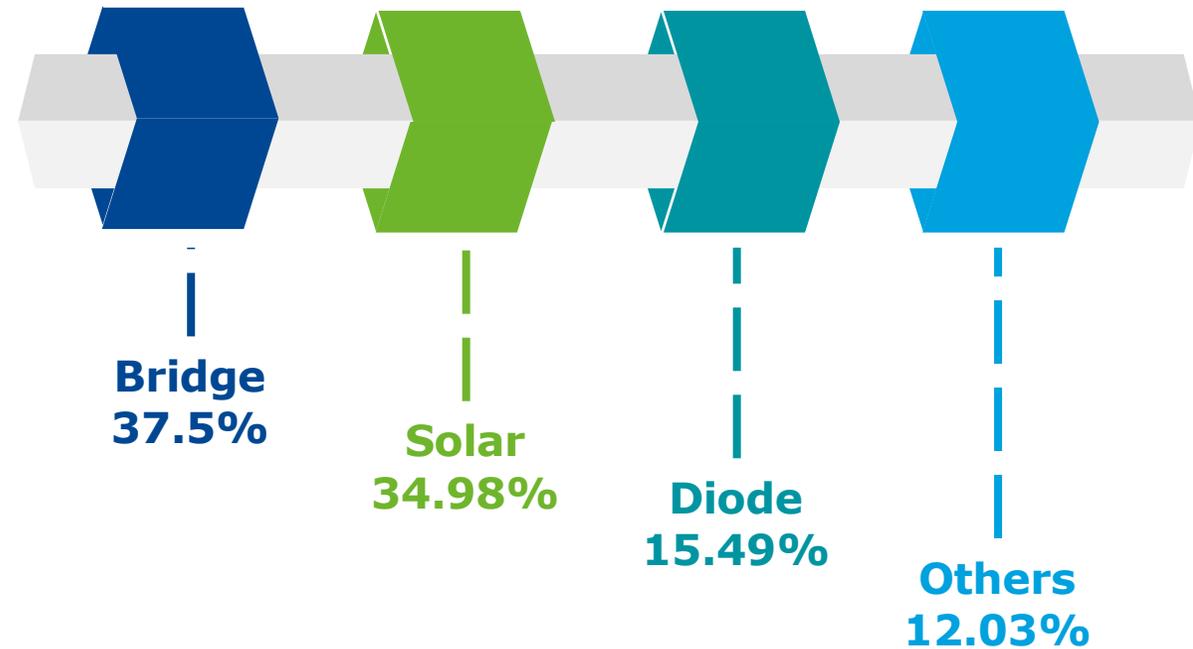
Application Fields



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Sales Proportion



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Customers

Automotive



Lighting



Consumer Electronics



Solar



Power Supply



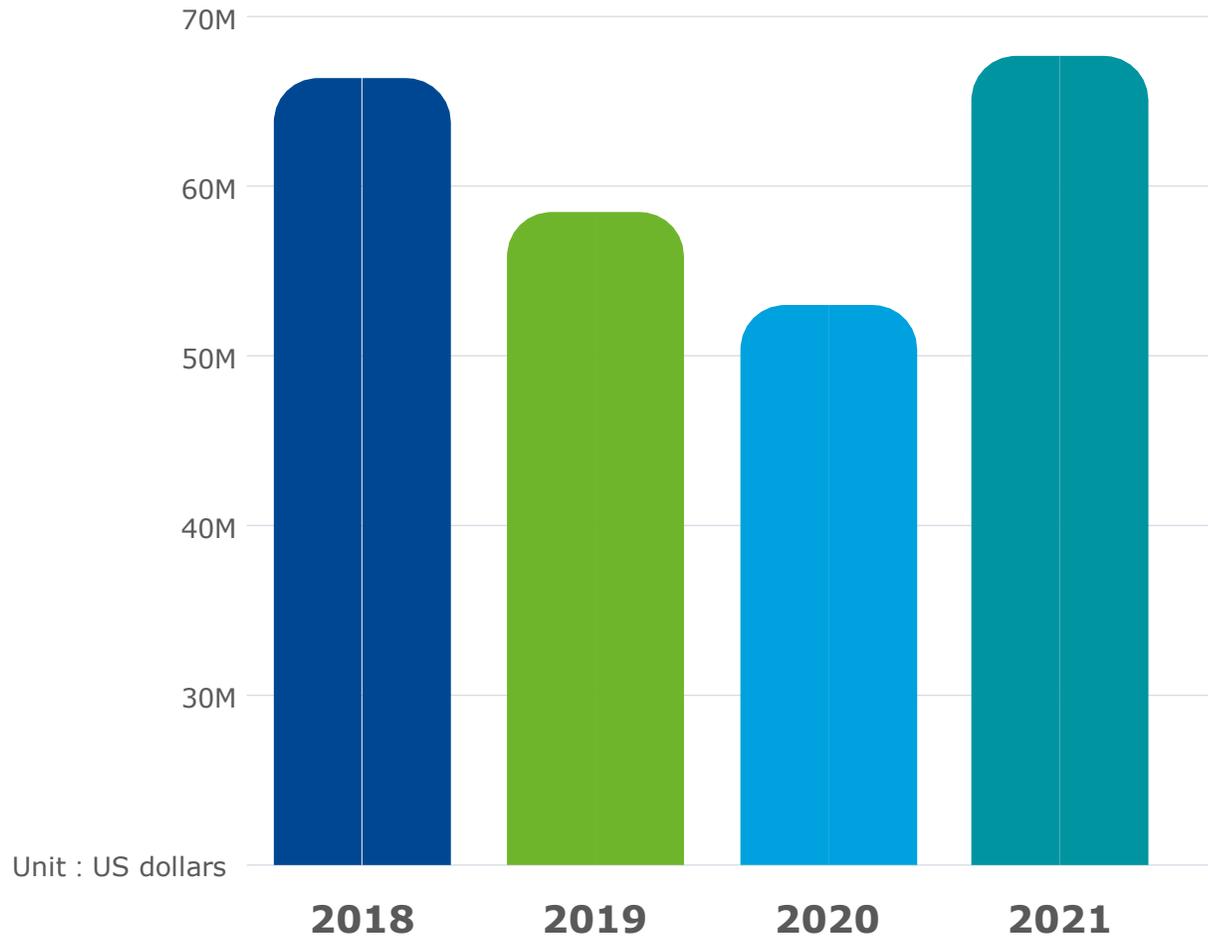
Industrial Application





Recent Revenue

Annual operating income in 2021



67.7 million

2020

53.7 million

2019

57.9 million

2018

67.0 million

Manufacturing Process



 **Soldering**



 **Cleaning**



 **Molding**



 **Post-mold Cure**



 **TMTT-Testing/
Marking/Packaging**



 **Trimming/Forming**



 **Hi-Pot Test**



 **Plating**



Comprehensive Hi-Reliability

No.	Test Items	Condition
1	Pressure Cooker Test (PC)	1.0 +0.3/0 kgf/cm², Ta=121°C
2	Forward Operation Life Test (OPL)	TA=25°C IF(max)=80%IF or Tj < 150°C
3	High Temperature Reverse Bias Test (HTRB)	TA=100°C(SKY)/ 125°C, (O/J, GPP), 80%VR
4	High Temperature Storage Life Test (HTS)	150°C
5	Thermal Shock (TS)	0°C/ 5Min. , 100°C/ 5Min.
6	High Temperature High Humidity Test (HTHH)	Ta=85°C,RH=85%
7	Solder Heat (SH)	260±5°C
8	Temperature Cycling (TC)	-55°C to +150°C dwelled for 30min
9	Intermittent Forward Operation Life Test (IOL)	TA=25°C, IF(max)=80%IF, or ΔTj > 100°C, Power On:5min , Power Off:5min
10	Forward Surge Test (FS)	Peak Forward Surge Current 8.3mS Single Half Sine-Wave Super Imposed On Rated Load
11	Solderability	245±5°C
12	High Temperature Reverse Leakage Current Test (HTIR)	Refer to<Databook>



Comprehensive Analyzing Abilities



X-RAY analyzer



SZ6210P testing equipment



Halogen-free testing equipment



Thermal resistance testing equipment



Static tester



Electron microscopy & Energy spectrum analyzer



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THANK YOU FOR YOUR LISTENING

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