

Formosa Microsemi Co., LTD

Company Profile



**Quality First
Supreme Service
Lasting Improvement
Customer Satisfaction**

<http://www.formosams.com>

Company Profile

- * Company Overview
- * Company Policy
- * Company Organization
- * Quality Certificate
- * Product Construct
- * Patent Certificate
- * Revenue Growth
- * Factory Equipment
- * Product Capacity
- * New Package Development Plan
- * Major Customers
- * Environmental Policy & Company Vision

Company Overview

1 *Established* **JUL. 1996**

2 *President* **Ms. Lita Wang**

3 *Capital* **USD12.5M**

4 *Employees* **560**

5 *Address* **5F,NO.208,Sec.3,Chung Yang Road, Tucheng District, New Taipei City, Taiwan**

Main Products

- General Purpose Rectifiers
- Fast Recovery Rectifiers
- High Efficiency Rectifiers
- Super Fast Recovery Rectifiers
- Efficient Fast Recovery Rectifiers
- Schottky Diodes & Rectifiers
- Transient Voltage Suppressors (TVS)
- Zener Diodes & Rectifiers
- Switching Diodes
- Bridge Rectifiers
- Others

Taiwan Headquarter



Formosa Microsemi Co., LTD

Located :

Taipei , Taiwan

Assembly House &

Administration Center

Area : **1884 meter sq.**

Employee : **120 persons**

Established : **July, 1996**

<http://www.formosams.com>

Taipei Sales Office



Located :

**Taipei , Taiwan
Sales Office**

Established : **Aug, 2008**

Fms Technology Co., LTD

<http://www.formosams.com>

Yi-Lan Factory



Formosa Microsemi Co., LTD

Located :

I-Lan, Taiwan

**Assembly House &
Wafer Foundry**

Area : **3305 meter
sq.**

Employee : **80
persons**

Established :
Sep., 2008

<http://www.formosams.com>

Hangzhou Factory



Hangzhou Formosa Micro-Electronic Co.,LTD

Located :
**Hangzhou, China,
Assembly House**

Area : **1500 meter
sq.**

Employee : 100
persons

Established :
Nov., 2001

<http://www.formosams.com>

Kunshan Factory



Frontier Electronics (Kunshan) Co., Ltd.

Located :

**Jiangsu.China Assembly
House & Diffusion Fab**

Area : **62400 ft2.**

Employee : **120 persons**

Established :

Mar., 2002

ShenZheng Sales Office



Located :

**ShenZheng
Sales Office**

Established :

Aug., 2008

Shenzhen Formosa Semiconductor Co.Ltd.

<http://www.formosams.com>

Company Policy

Quality

Quality First

Supreme Service

Lasting Improvement

Customer Satisfaction

Environmental

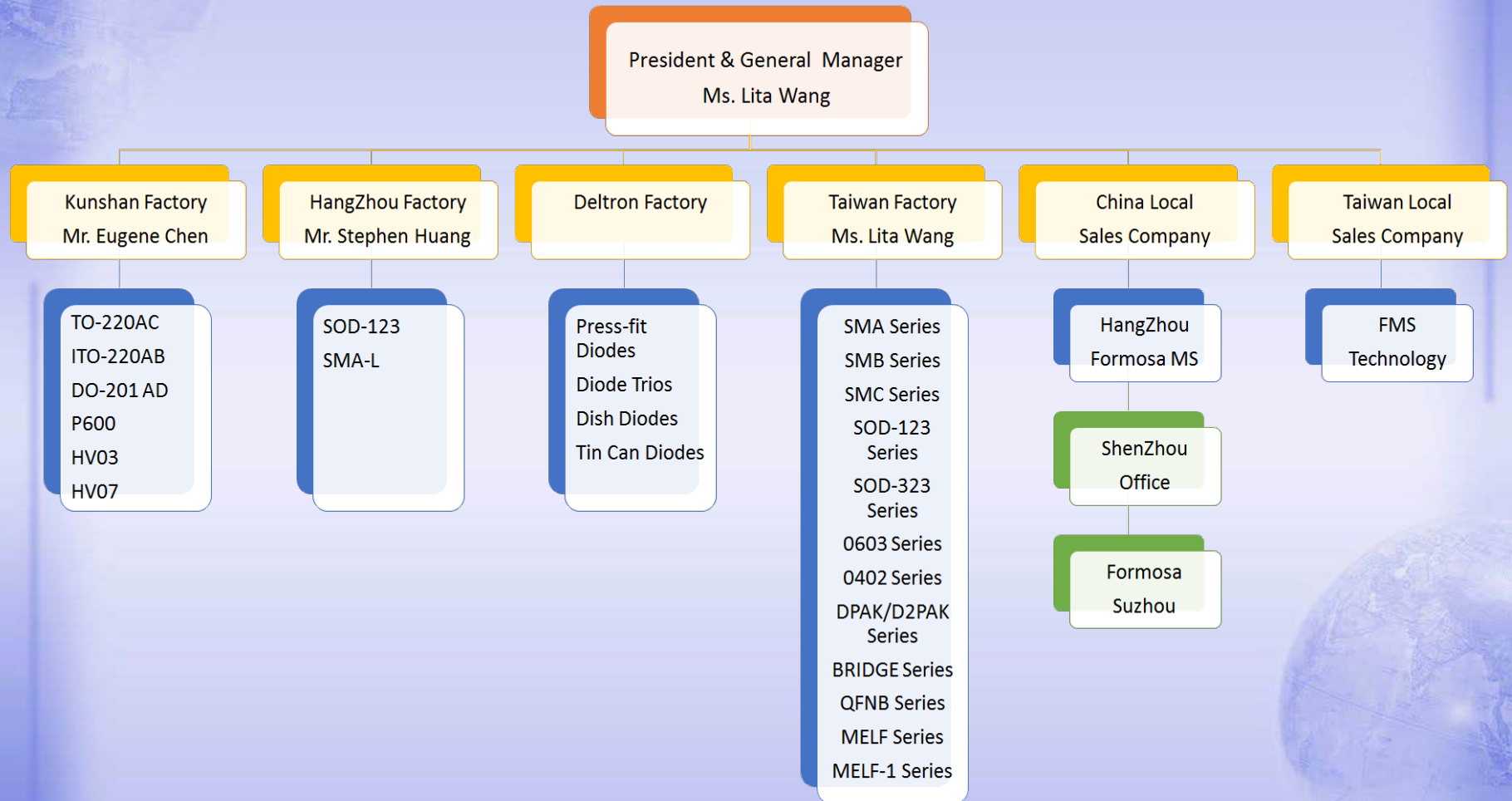
Respect Environmental Laws & Regulation

Prevent Environment from Pollution

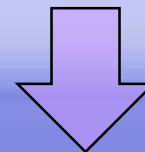
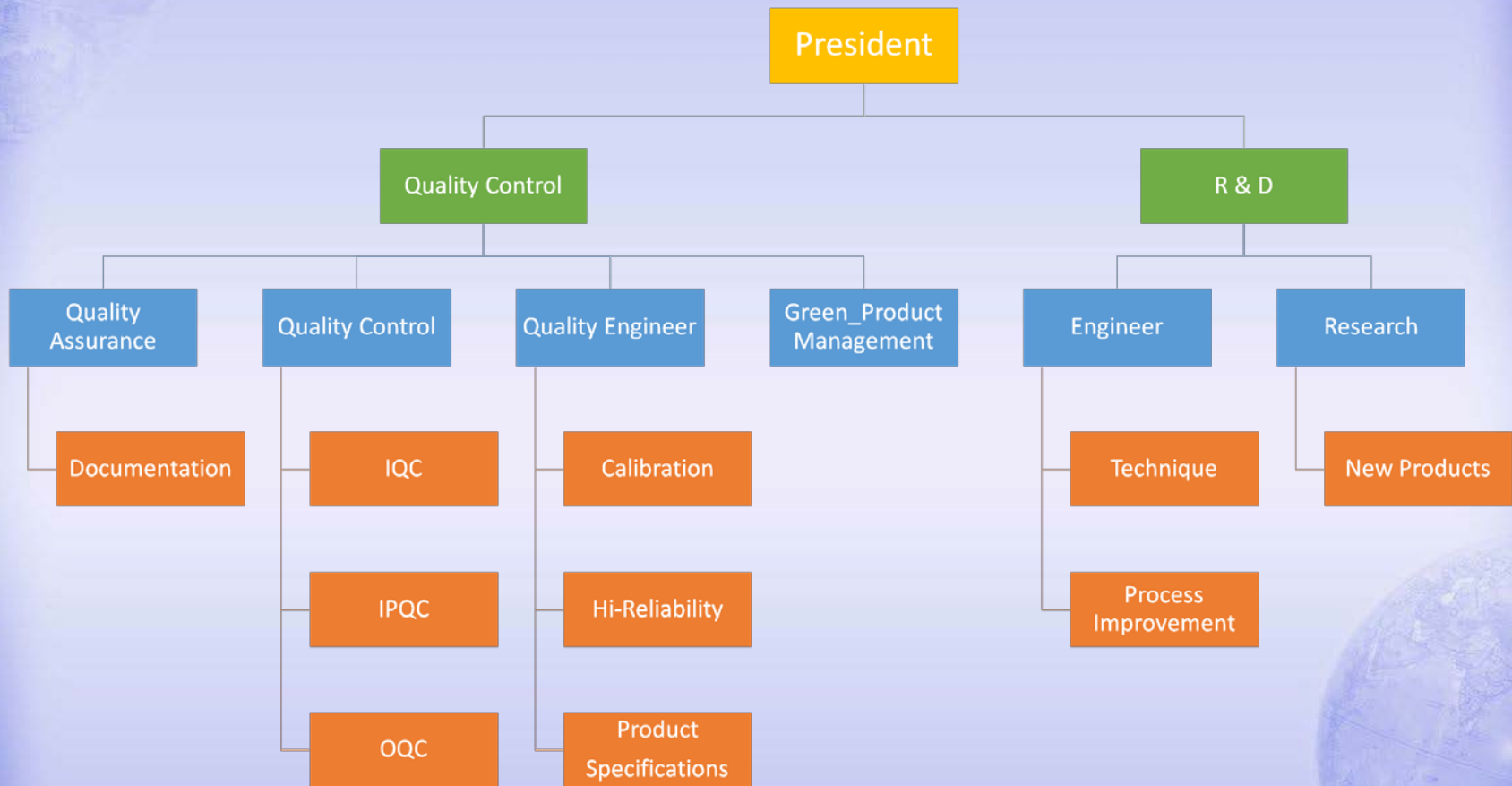
Emphasize Energy & Carbon Saving

Manufacture Green Products

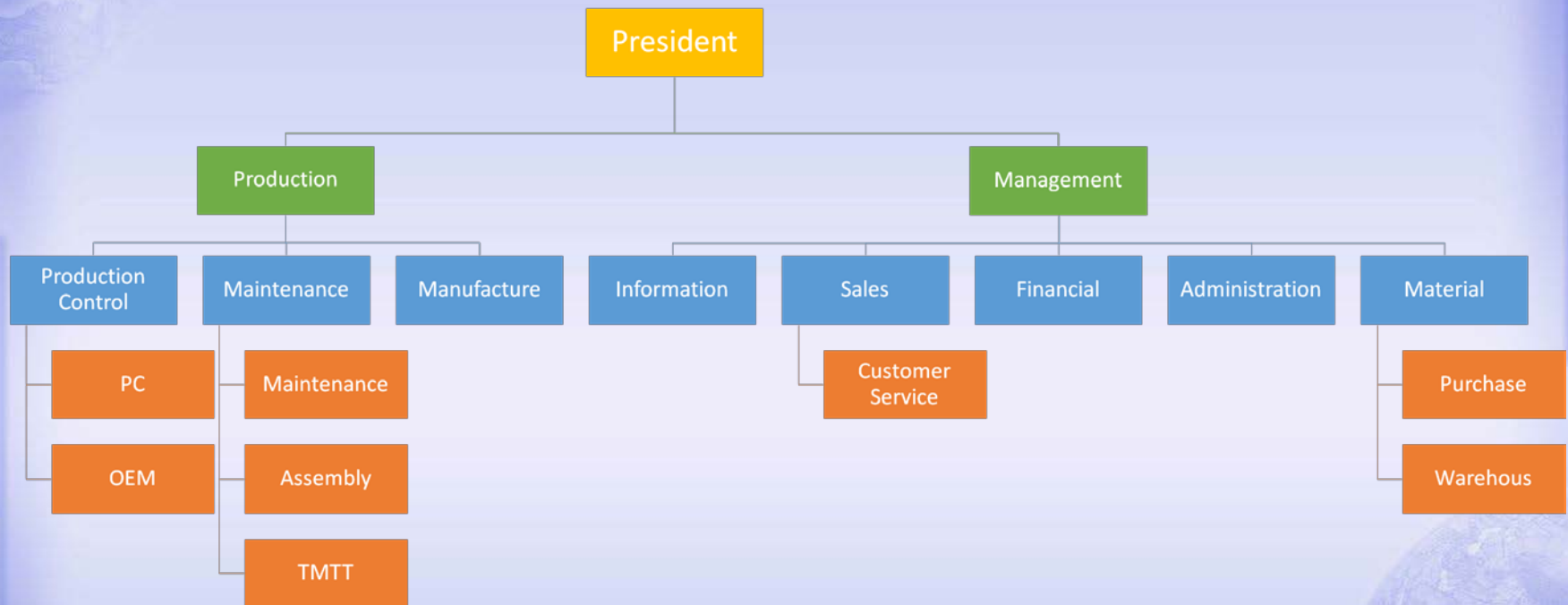
Group Organization



Organization 1/2



Organization 2/2



FMS Certification

TS16949/ISO9001/ISO14001/QC080000

CERTIFICATE

This is to certify that

FORMOSA MICROSEMI CO., LTD.
5F, No. 208, Sec. 3, Chung Yang Road
Tucheng Dist., New Taipei City, Taiwan

has implemented and maintains a **Quality Management System**.

Scope:
The design and manufacture of diode package.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949 : 2009
(with product design)

Certification decision: 2014-09-17
This certificate is valid until: 2017-09-16
Certificate registration no.: 20000992 TS09
IATF No.: 0192582
Main certificate registration no.: 20000992 TS09
Buffalo Grove, IL, USA
2-IAO-QMC-01001

For and on behalf of DQS GmbH
Gerrit Kraus
Managing Director, UL DQS Inc.

UL
CERTIFIED



CERTIFICATE

This is to certify that

FORMOSA MICROSEMI CO., LTD.
5F, No. 208, Sec. 3, Chung Yang Road
Tucheng Dist., New Taipei City, Taiwan

with the organizational units/as listed in the annex

has implemented and maintains a **Quality Management System**.

Scope:
The design and manufacture of diode package.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2008

Certificate registration no.: 20000992 CM09
Date of original certification: 2009-11-07
Date of revision: 2014-09-17
Date of certification: 2014-09-17
Valid until: 2017-09-16

UL DQS Inc.
Gerrit Kraus
Managing Director



Certificate of Quality Approval - Issue 1

DAS CERTIFICATION

ENVIRONMENTAL MANAGEMENT SYSTEM
Certificate of Approval

This is to certify that the quality management system of

FORMOSA MICROSEMI CO., LTD.
5F, No.208, Sec. 3, Zhongyang Rd., Tucheng Dist., New Taipei City 236, Taiwan
(R.O.C.) No.38, Meizhou 2nd Rd., Yilan City, Yilan County 260, Taiwan (R.O.C.)

Has been assessed and found to meet the requirements of:
ISO14001:2004

The certificate valid for the following scope of operation:
The design and manufacture of diode package.

Certificate Number: DTE08-021
Certificate Issue Date: 27 March 2014 - Certificate Expiry Date: 26 March 2015
Initial Registration Date: 27 March 2013
DAS Registration Date: 27 March 2013
Re-assessment Date: 26 March 2016
Authorized: *Seng J. MAK*

DAS CERTIFICATION Ltd.
Cotton House (1882) 1 Wellington Close, Borehamwood, Herts SG8 5NF, UK
Telephone: +44 (0) 1494 2813788
Email: info@dascertification.co.uk




Certificate of Registration

Intertek

This is to certify that the quality management system of

Hangzhou Formosa Micro-electronic Co., Ltd.
No. 6 Mingde Road, Binjiang District, Hangzhou, Zhejiang Province, P. R. China

has been assessed and registered by Intertek as conforming to the requirements of

ISO 9001: 2008

The quality management system is applicable to:
Production and sales of silicon rectifiers.

Organization Code: 73321085-7
Certificate Number: 0211036
Original Issue Date: 22 December 2003
Certificate Issue Date: 12 October 2013
Certificate Expiry Date: 14 September 2018

Intertek Certification (UK) Limited, 150 Victoria Park, Victoria Road, Derby DE24 6ZF, United Kingdom




IEC QUALITY ASSESSMENT SYSTEM (IECQ)
covering Electronic Components, Assemblies, Related Materials and Processes
For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Conformity
Hazardous Substance Process Management

IECQ Certificate No.: IECQ-H-MODIFY 09 0003 Issue No.: 5 Status: Current
Subcategory: IECQ-H-MODIFY 09 0003 Issue Date: 2014/09/16 Org Issue: 2009/02/18
CB Certificate No.: 05300812001 Expiry Date: 2017/09/21

Applicable to:
European Directive 2011/65/EU ("RoHS") requirements
Hangzhou Formosa Micro-electronic Co., Ltd.
No. 6 Mingde Road, Binjiang District, Hangzhou, Zhejiang Province, China

The organization has developed and implemented Hazardous Substance Process Management procedures and related processes which have been assessed and found to comply with the applicable requirements for IECQ HPM organization approval which is in accordance with the Basic Rules (IECQ 01) and Rules of Procedure (IECQ 02 & IECQ Hazardous Substance Process Management) of the IEC Quality Assessment System for Electronic Components (IECQ), and with respect to the IECQ Specification:

- IECQ QC 080000 (2012) Hazardous Substance Process Management System Requirements

This Certificate is applicable to all electronic components, assemblies, related materials and processes for the following scope of activities:
Production and sales of silicon rectifiers.

Issued by the Certification Body: Intertek Certification Ltd.
150 Victoria Park, Victoria Road, Derby DE24 6ZF, United Kingdom
Authorized person: Eric Liu

Intertek




Certificate of Registration

Intertek

This is to certify that the environmental management system of

Hangzhou Formosa Micro-electronic Co., Ltd.
No. 6 Mingde Road, Binjiang District, Hangzhou, Zhejiang Province, P. R. China

has been assessed and registered by Intertek as conforming to the requirements of

ISO 14001: 2004

The environmental management system is applicable to the management of the environmental aspects related to:
Production and sales of silicon rectifiers.

Organization Code: 73321085-7
Certificate Number: 7314
Original Issue Date: 27 October 2005
Certificate Issue Date: 24 September 2014
Certificate Expiry Date: 03 November 2017

Intertek Certification (UK) Limited, 150 Victoria Park, Victoria Road, Derby DE24 6ZF, United Kingdom




Patented Product

Flat Terminal Surface Mount Device (Batch Process)

1. Light

2. Thin

3. Short

4. Small

5. Good Quality & Hi-Reliability

**6. Patented batch process design
with competitiveness**



Patent Certificate (Taiwan)

Patent No. 124076



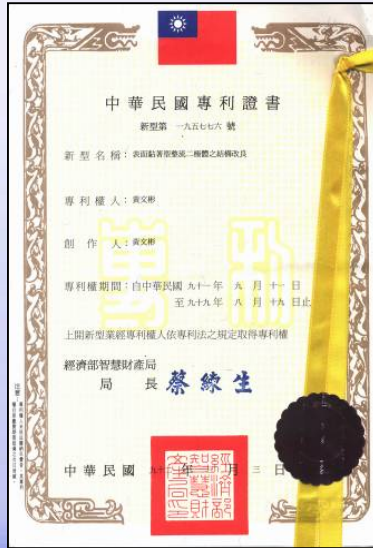
Patent No. 134855



Patent No. 159803



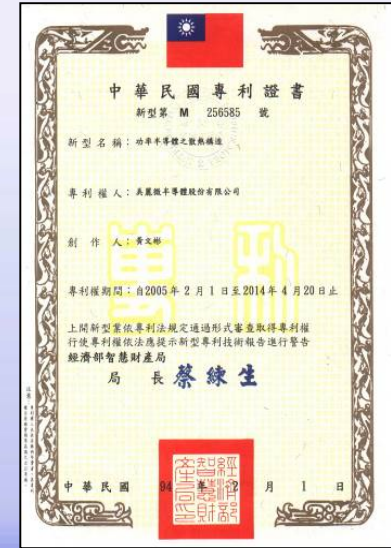
Patent No. 195776



Patent No. 253150



Patent No. 256585



Patent Certificate (China)

Manufacturing Method for Surface Mount Rectifying Diode



Patent No.
ZL99 1 09757.2

Manufacturing Method for Surface Mount Rectifying Diode



Patent No.
ZL 00 1 21446.7

Dissipation Structure of Power Semiconductor



Patent No.
ZL 2004 2 0050732.3

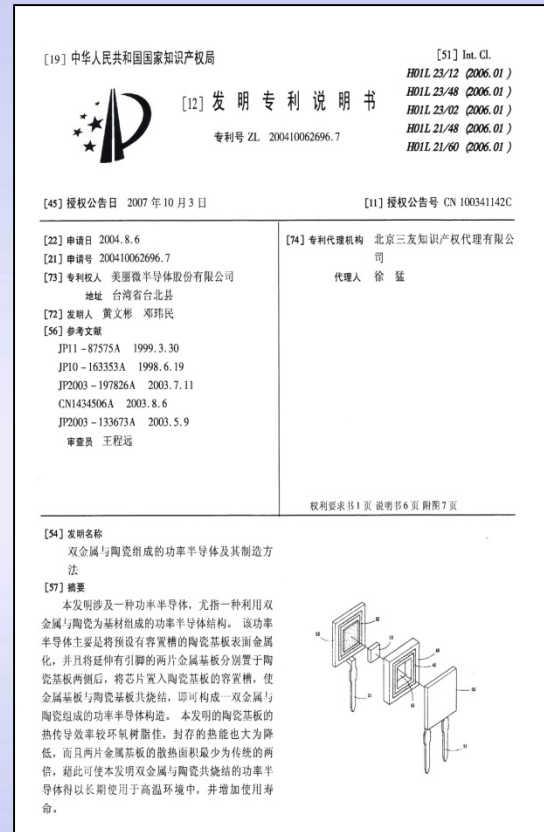
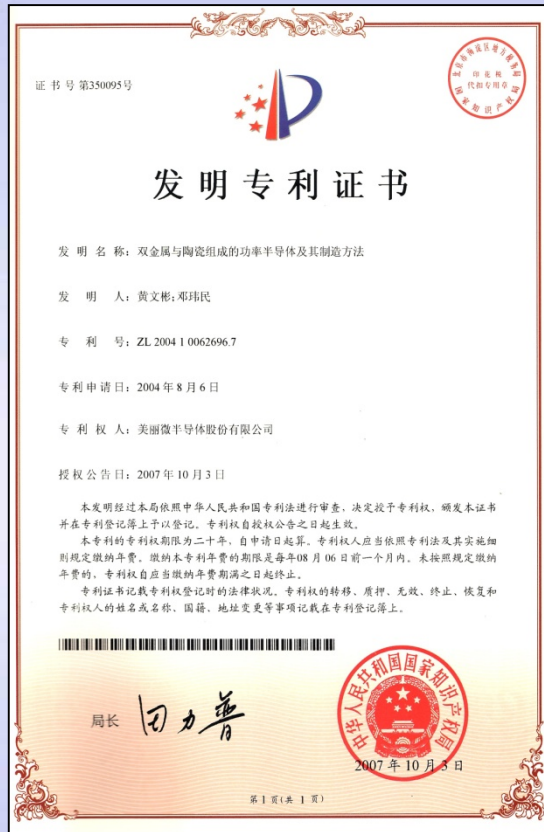
Structure to Prevent Device against Resonance of Capacitor



Patent No.
ZL 03 2 46589.0

Patent Certificate (China)

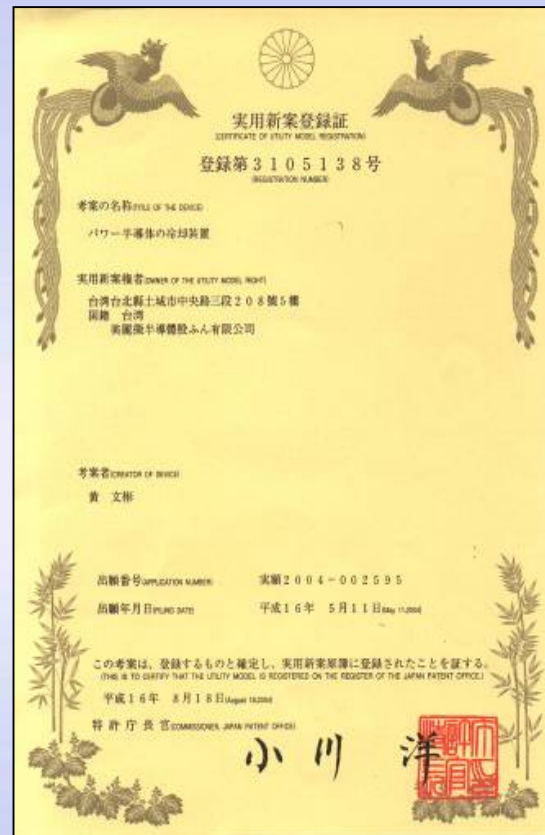
China Patent No. ZL 2004 1 0062696.7



Structure of Power Semiconductor with Metal and Ceramic Plates

Patent Certificate (Japan)

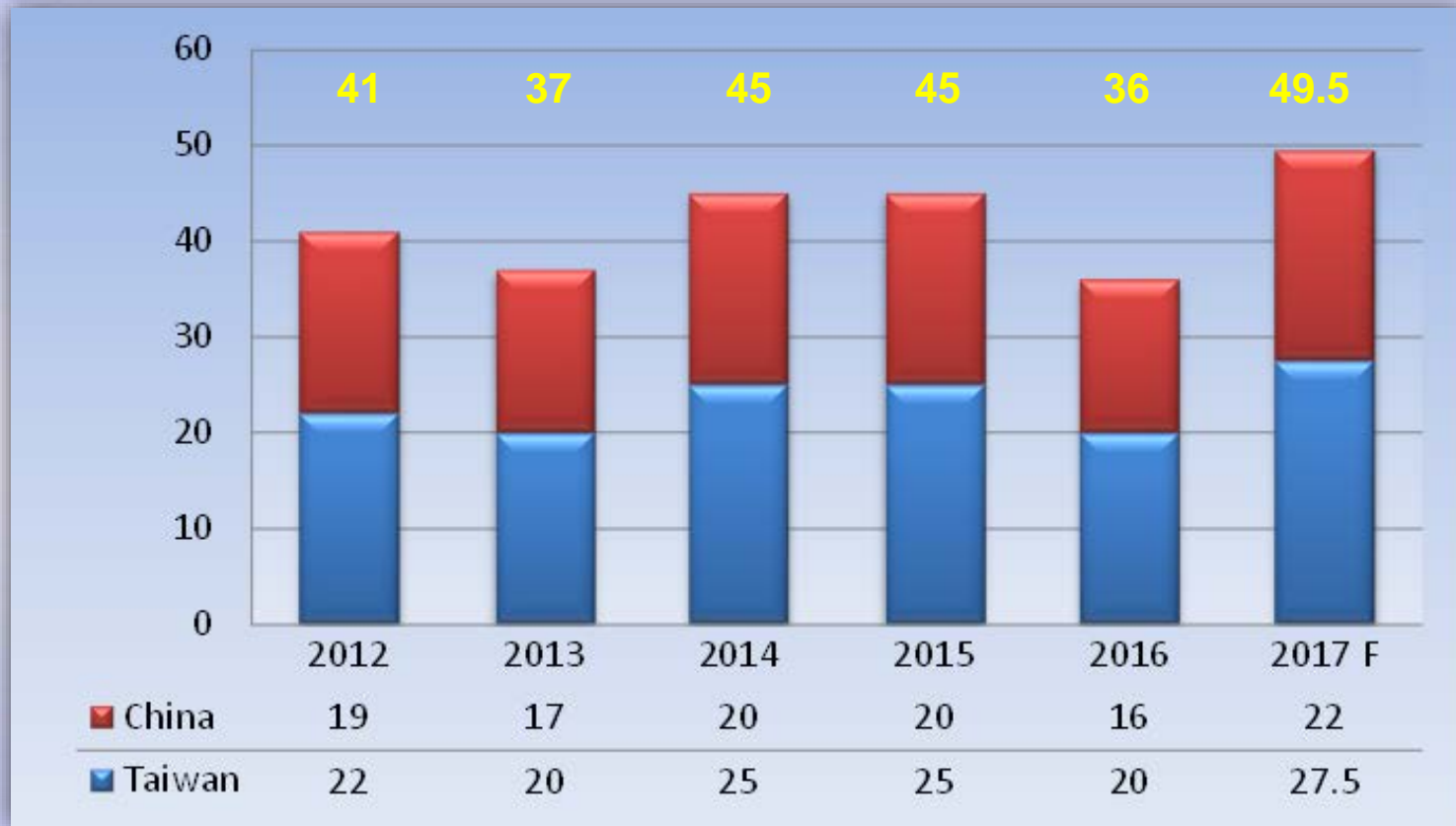
Japan Patent No.3105138



**Dissipation Structure of
Power Semiconductor**

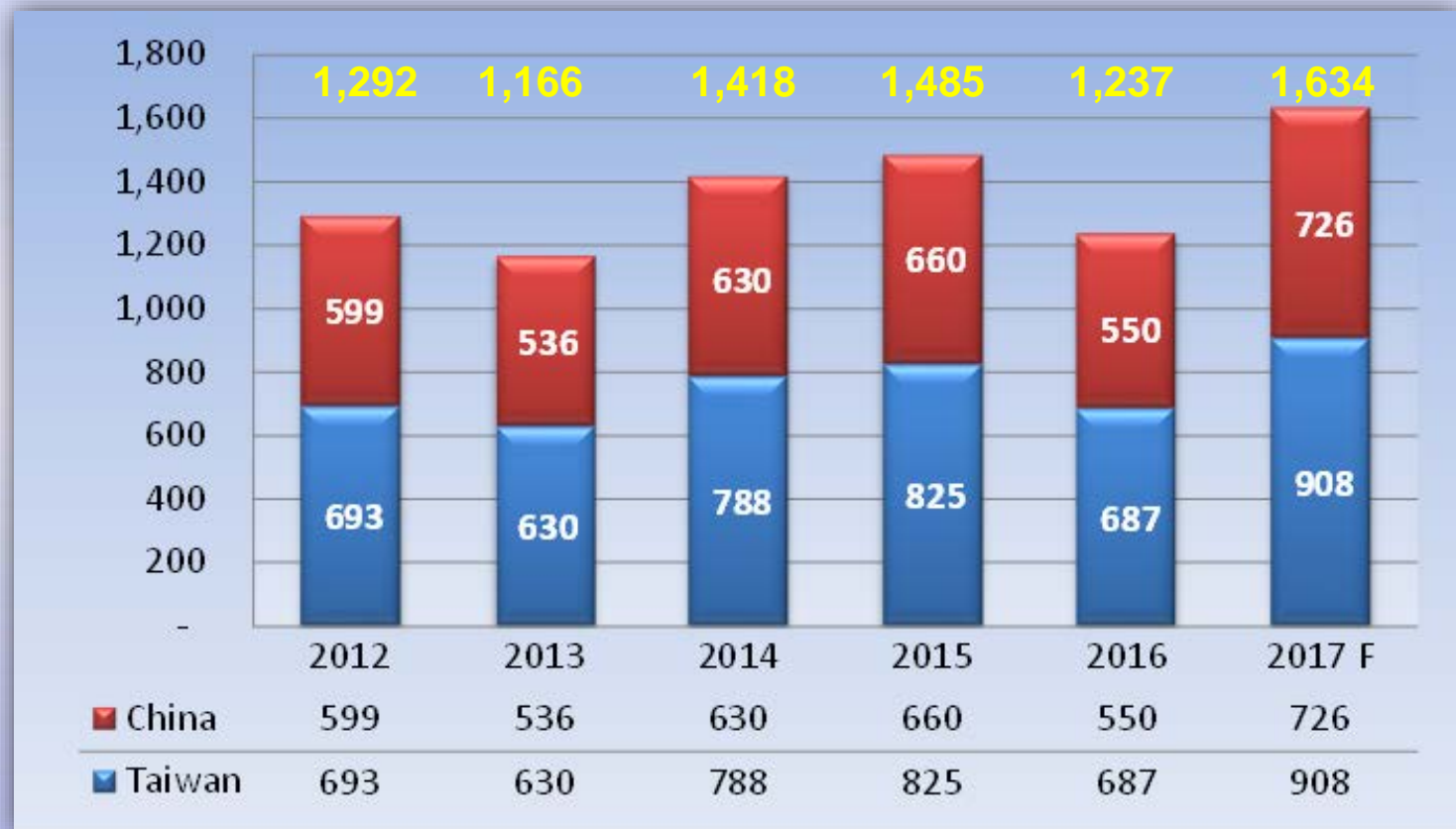
Revenue Growth

Unit : Million USD
Forecast

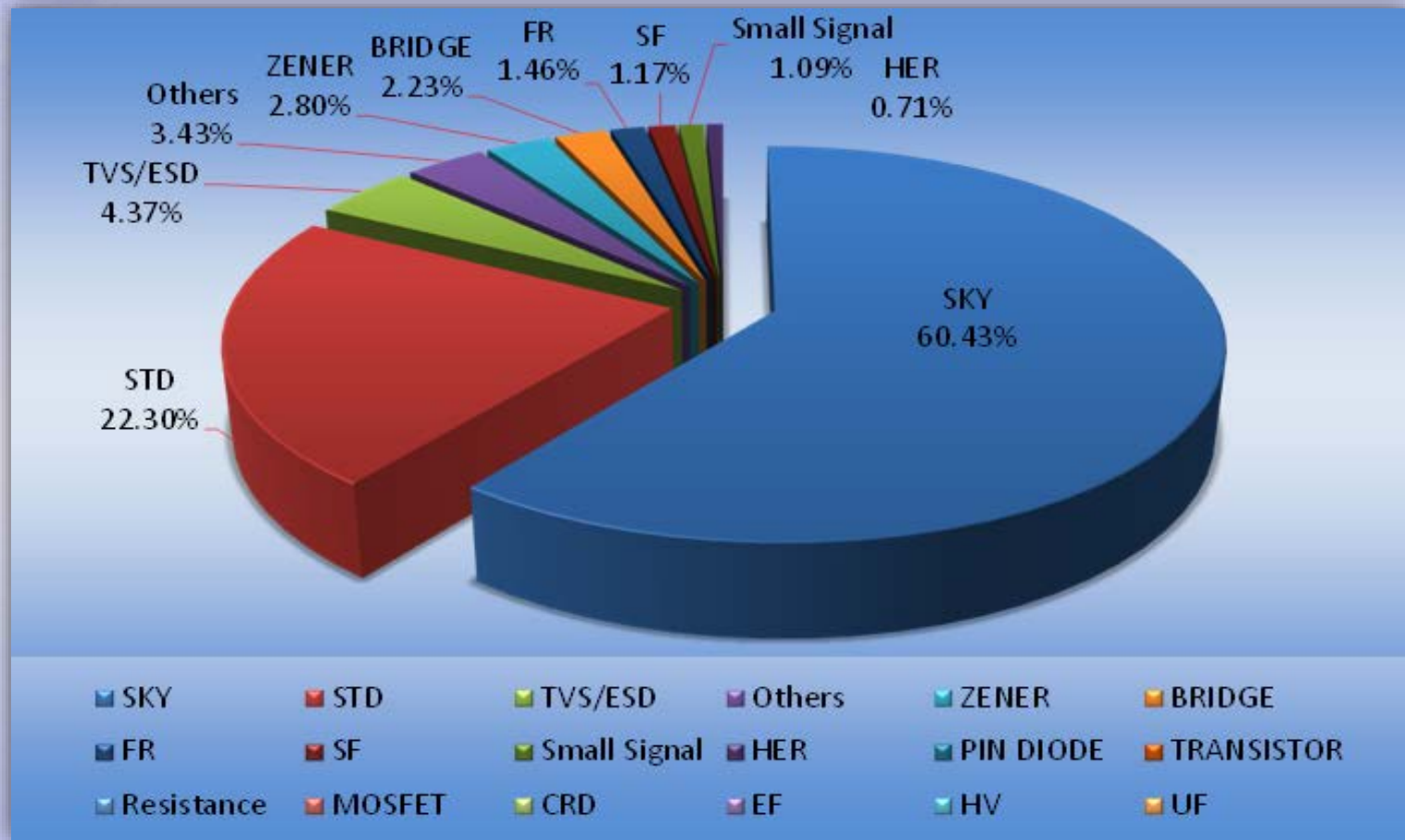


Revenue Growth

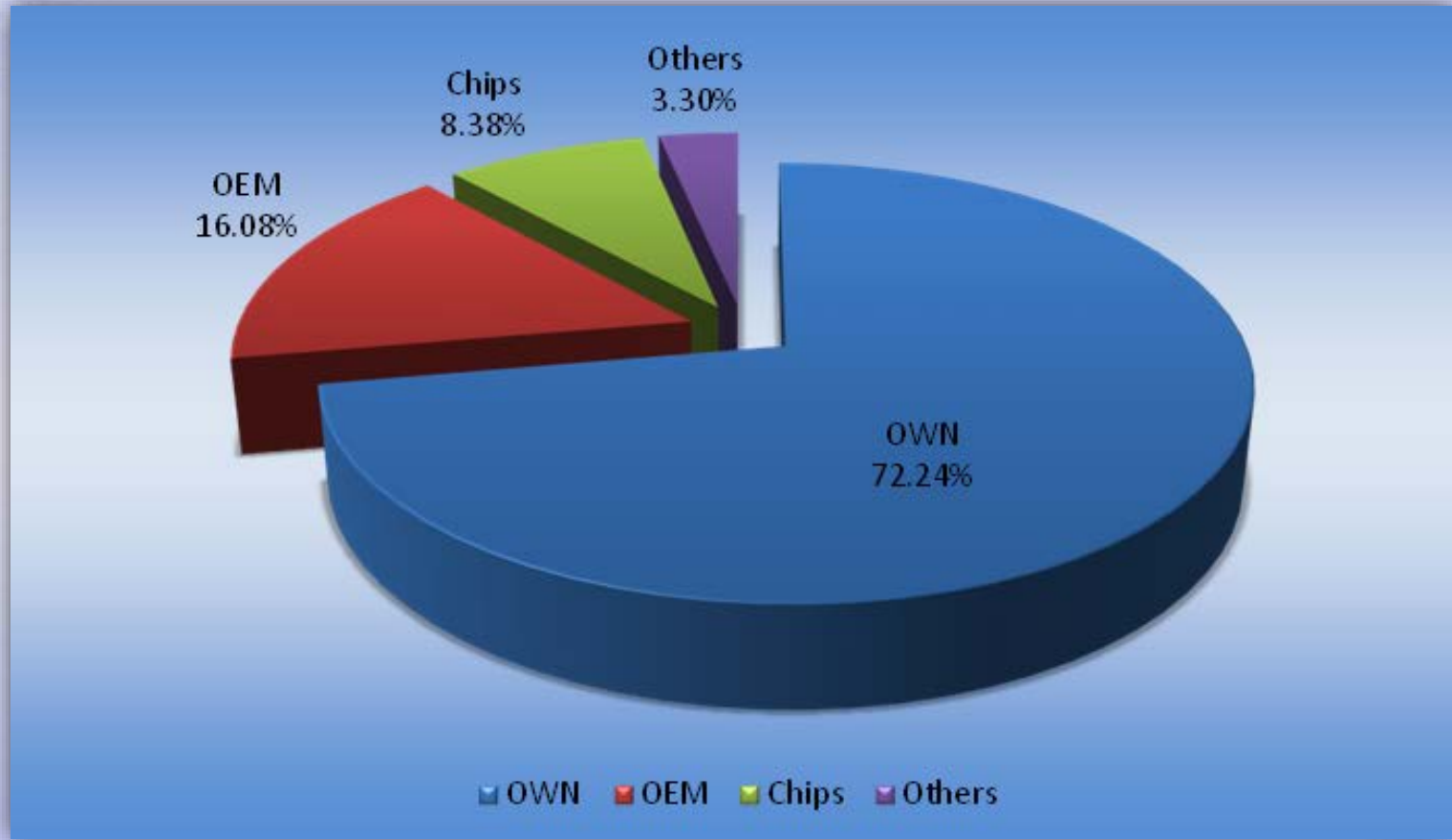
Unit : Million NTD
Forecast



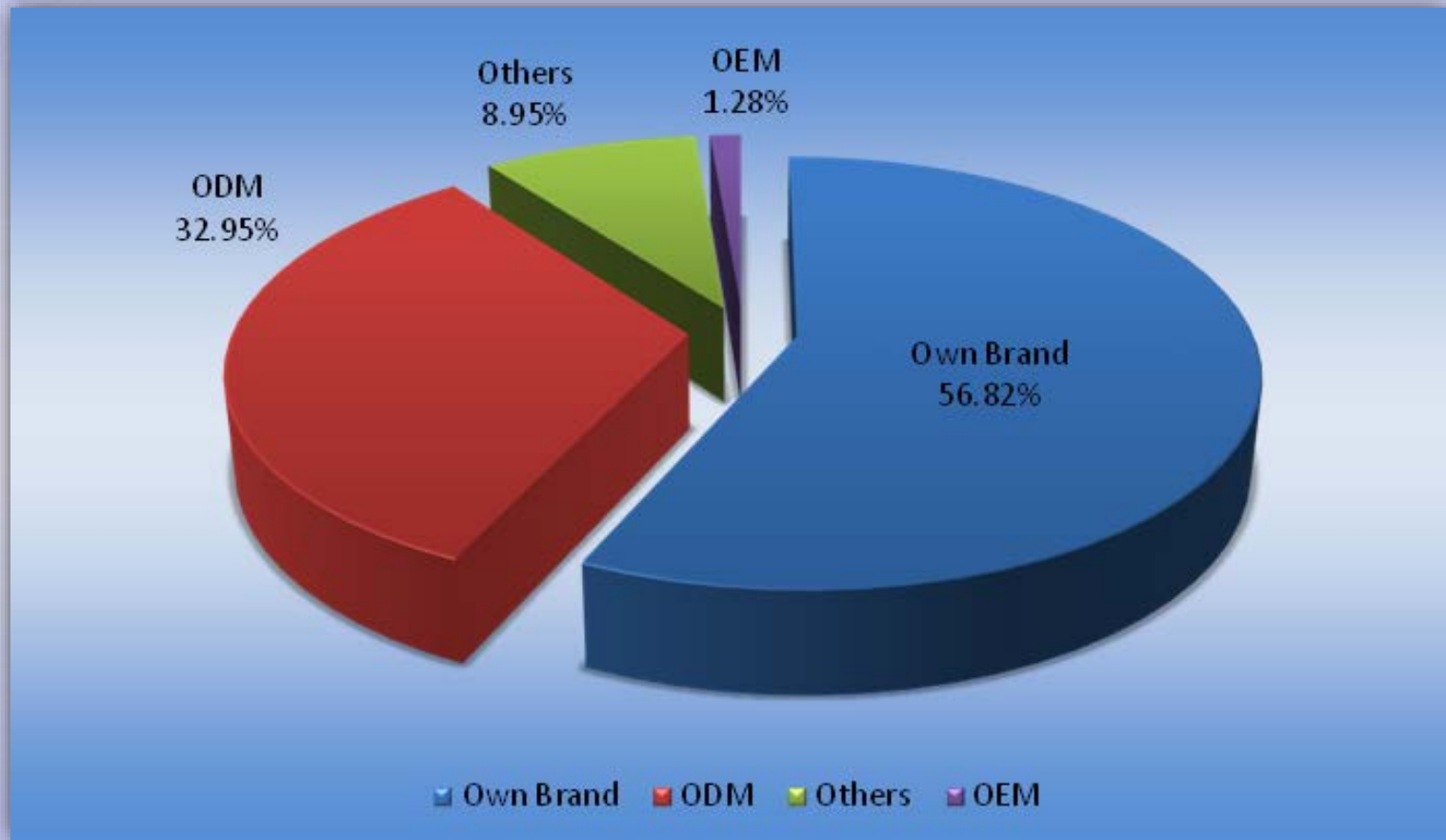
Formosa Group Sales Category (Products)



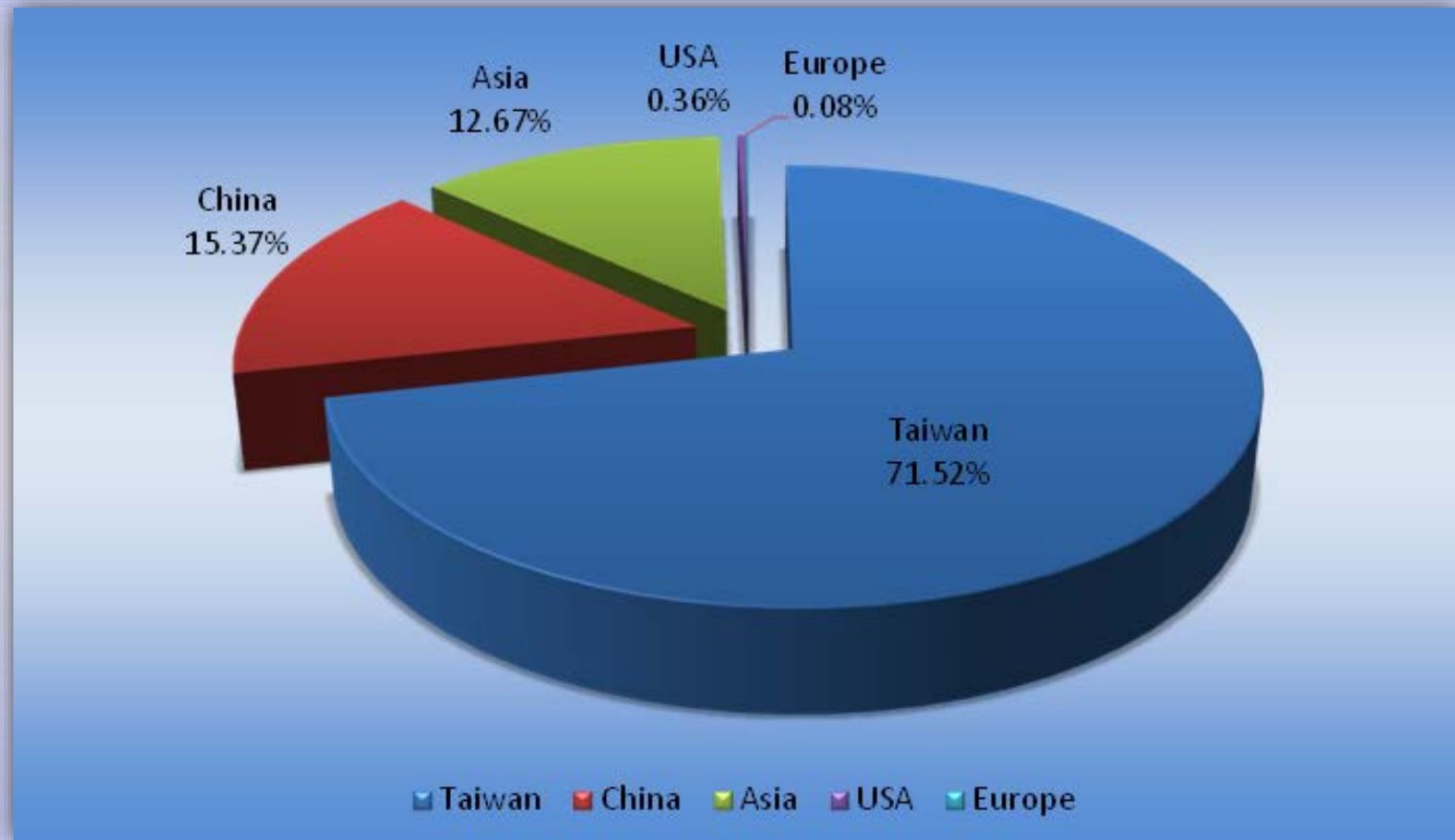
Formosa Group Sales Category (Manufacture)



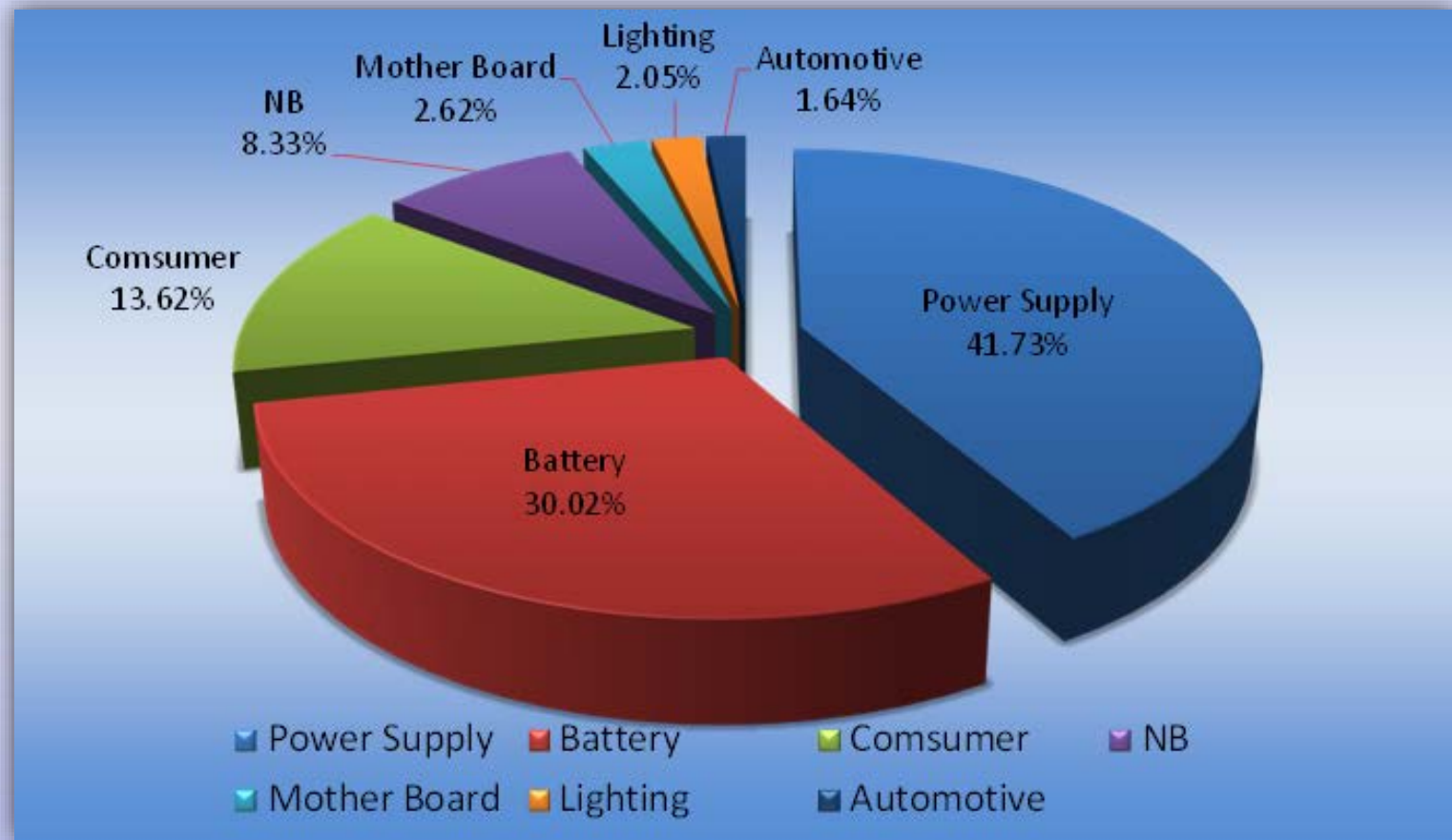
Formosa Group Sales Category (Brand)



Sales Area Statistics



Application Classification



FMS Production Line



Diffusion Furnace



Wafer Cleaning



Lithography Lab.

FMS Production Line



Wafer Scribing



Die Sorting

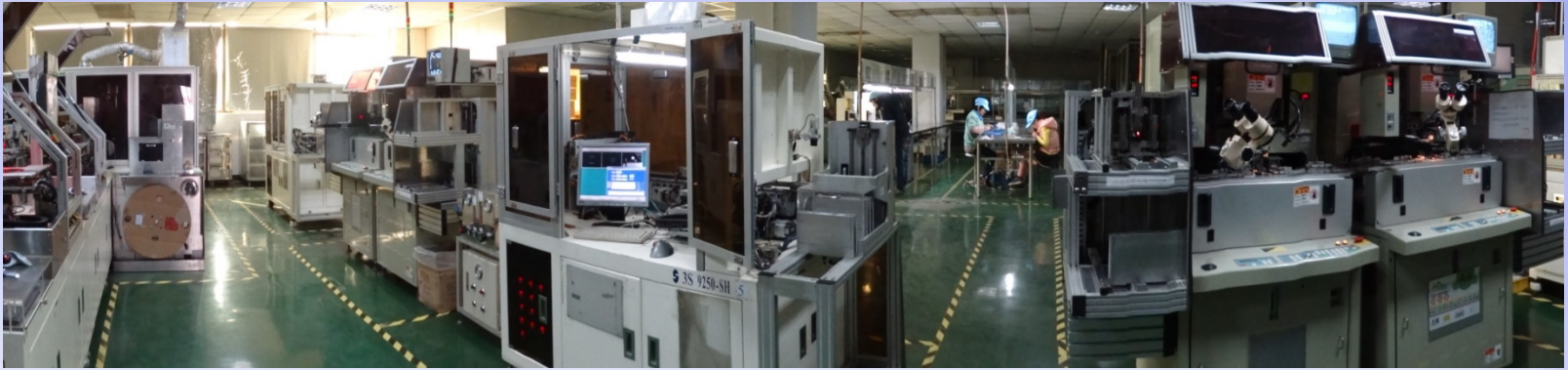


Soldering



Molding

FMS Production Line



TO/ITO



TMTT



Warehouse

Product Capacity

Item	Package	Capacity (kk/month)	Classify
1	MFN-9/MFN-5	10	<i>New</i>
2	SOD-923 / Bonding	100	
3	0402/0603/0805	6.5	<i>New</i>
4	SOD-723 / Bonding	20	
5	SOD-523 / Bonding	100	
6	SOD-323 / Bonding	100	
7	SOD-323 / Soldering	20	
8	SOD-123 / Bonding	50	
9	SOD-123 / Soldering	80	
10	DO-213AA/DO-213AB	5	
11	DO-214AC (SMA Series)	80	
12	QFNB	3	<i>New</i>
13	DO-214AA (SMB Series)	20	
14	DO-214AB (SMC Series)	10	
15	D-Pak/D2-Pak	10	
16	SOT-723	20	
17	SOT-523/563	25	
18	SOT-323/363	15	
19	SOT-23	300	
20	DO-41/DO-15 /DO-201/R6	120	
21	TO-220/ITO-220	5	
22	High Voltage	2	
23	DO-34G	20	
24	DO-35G	30	
25	DO-41G	30	
26	Glass Micro Melf	5	
27	SOD-80	30	
28	DL-41G	5	
Total		1,222	

2017 FMS ROADMAP

Product Kind	Specs	~2016	2017	2018		
<u>Schottky General Rectifier</u>	<p>Io: 0.1A~30A ; VR:20V~1000V Package: 0402&0603 &0805 & SOD-323N/NS SOD-123M/MH/MHT/MS/MST SMA/-S/-HS/-HST & SMB/S SMC/-T3/-T4 DPAK(TO-252) & D2PAK(TO-263) ITO-220/TO-220</p>		<p>CSP MFN-9-1 SKY Io:~0.5A Vr:40V</p> <p>SR MOS TO-251 (IPAK) Id:5A RDSON:3~7mΩ Vds:40~100V</p> <p>SR MOS D2PAK Id:10A RDSON:3~7mΩ Vds:40~100V</p>			
<u>TVS</u>	<p>P:200W~1500W ; VR:5V~440V Package: SOD-123MS/MST SMA-S & SMB-S & SMC</p>	<p>SMB8S Series 800W Bi:5V~440V</p>	<p>SMA6S Series 600W Bi:5V~170V Package: SMA-S</p>	<p>SM4F Series 400W Bi:5V~170V</p>	<p>SMC15-T3 Series 1500W Uni:5V~440V Package: SMC-T3</p>	<p>TO Series 6000W Uni:10V~48V Package: TO-263</p>
<u>Zener</u>	<p>P: 0.3W~1W ; VZ:2.2V~49V Package: SOD-123MS/MST SMA-S & SMB-S & SMC</p>					
<u>Bridge</u>	<p>Io: ~2A ; VR:20V~1000V Package: QFNB</p>		<p>QFNB (Mini bridge) SKY Io:2A Low VF Vr:40~100V</p>	<p>QFNB (Mini bridge) STD Io:3A Vr:50~1000V</p>		
<u>ESD</u>	<p>VR:3.3V~24V ; Cp(Max.): 0.4pF~120pF Package: 0402 0603</p>		<p>0402 Vr:12V Uni/Bi Low Cj</p>			
<u>CRD</u>	<p>Ip: 20mA~150mA Package: SOD-323N/NS SOD-123MS</p>		<p>TO-251 (IPAK) Low VT</p>			
		~2016	2017	2018		

FORMOSA MS web site: <http://www.formosams.com/>

<http://www.formosams.com>

Main Customer



Main Customer Network & Communication



Main Customer Battery Pack

Celxpert

DynaPack

GLW® Your Powermate

Getac

MOLICEL®

SMP

Main Customer

LCD TV / Monitor / Panel



Main Customer

Note Book / Mother Board / Tablet

CLEVO®

ECS ELITEGROUP




Getac

FOXCONN®

msi™ 微星科技

Shuttle® We create!

 **清华同方**

Main Customer

LED Lighting



Lextar

EVERLIGHT

UNi

Main Customer Charger & Adapter



Main Customer

Automotive industry



朋程科技
Actron Technology Corporation

SELEC[®]
Creating Best Value



JUOKU
TECHNOLOGY

MOBILETRON
車王電子



WEJ[®]

MR
MINDA RIKA



gogoro

JEM JINYOUNG
ELECTRO-MECHANICS
珍迎电机(株)

UNO MINDA
NK MINDA GROUP

S&T Motiv

LS Automotive

<http://www.formosams.com>

Company Vision

Lasting Innovation
Continuous Management

***To Be The Most Advanced and
The Largest Leading Brand of
Diodes and Rectifiers***

Thank You