



德昌電子(集團)有限公司

TAK CHEONG ELECTRONICS (HOLDINGS) CO.,LTD.

## **Company Profile**

**Our Vision: Delight Customer Profitably**

**T** *Tak Cheong Electronics (Holdings) Co., Ltd.*

Rm. 220-222 Chiap Thong Bldg.  
321 Tokwawn, Kowloon, HKSAR

**T** *Tak Cheong Semiconductor Co., Ltd.*

**TRADING & LOGISTICS TEAM**

Rm. 220 – 222 Chiap Thong Bldg.  
321 Tokwawan, Kowloon, HKSAR

**T** *Tak Cheong Electronics Shanwei Co., Ltd.*

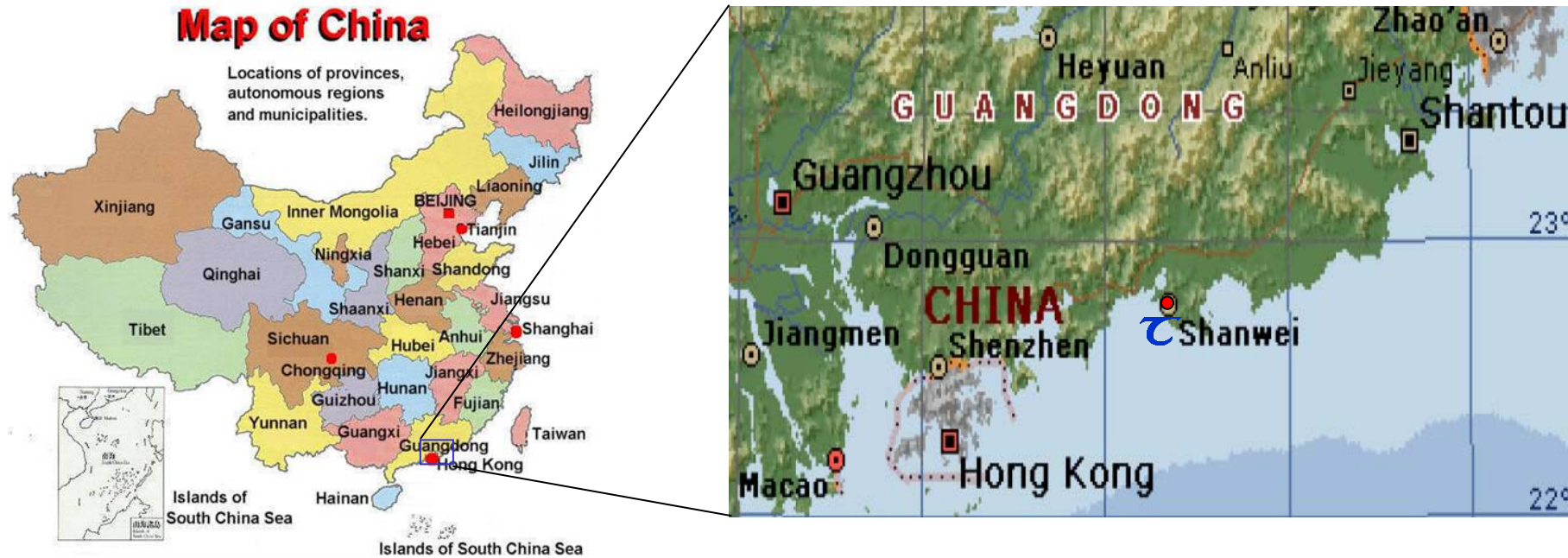
**MANUFACTURING SITE**

Bubian Industrial Zone  
Shanwei City, Guangdong, PRC

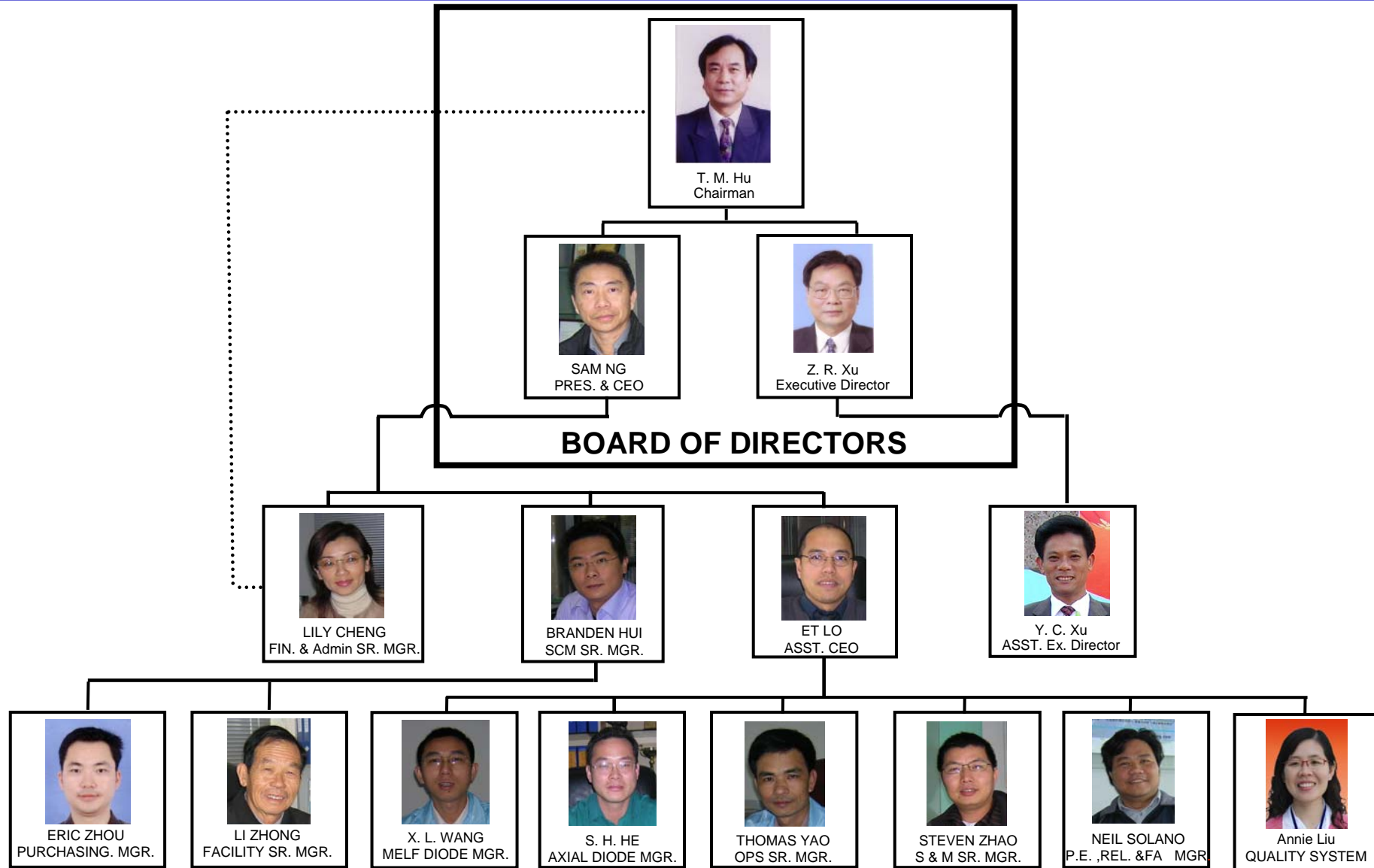
Land Area : 200,000 sq. m.  
Tel. No. 86 660 3375888  
Fax No. 86 660 3375329

200 km. Northeast of Hong Kong



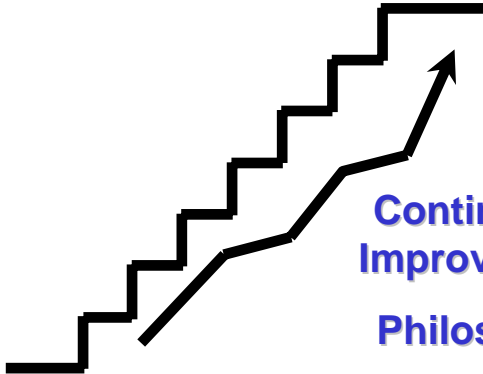


----Delight customer profitably----



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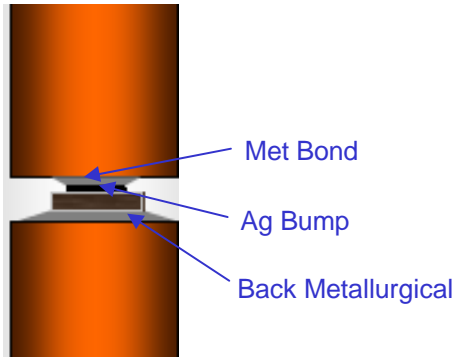
**World Class Manufacturing**



**Continuous Improvement Philosophy**



**Automotive Rectifiers & Surge Suppressor**



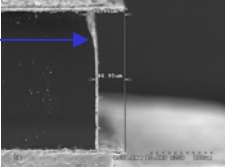
**Metallurgical Bond**



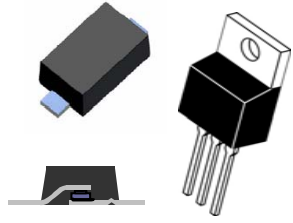
**Implosion Technology (no air gap)**



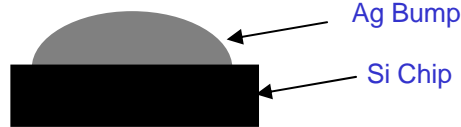
**Glass/Plastic Package Technology**



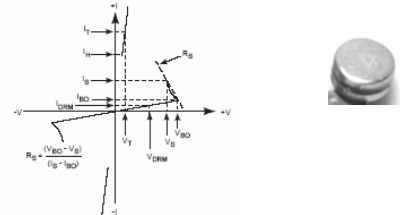
**Dry/Wet Etching**



**Clip/wire Bonding Technology**



**Silver Bumping Technology**



**Thyristor Technology**

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**Do a  
complicated  
task in a  
simple  
Way**

**Speed is life**

**Do a  
common  
thing in an  
uncommon  
way**

**ZERO BASE APPROACH**

**Only believe  
there  
are always  
better  
way to do  
things**

**There is no  
such  
word as  
“problem”  
only  
“challenge”**

**Never  
believe  
what we are  
doing is the  
best**

----Delight customer profitably----

- 1995** - Established a manufacturing facility for diodes in China.
- 1997** - Qualified by Fairchild as a sole subcontractor of its DO35s, DO41s & LL34s glass diodes.
- 1998** - Contracted by Motorola to produce zener diodes.
- 2000** - Contracted by ON Semi for Automotive Metal Rectifiers manufacturing.
- 2002** - Licensed by ON Semi to produce and market zener diodes with ON Semi's wafer technology & supply.  
 - Launch the international marketing & sales network.  
 - Contracted by Philips SOD27 Zener & Switching Diodes.  
 - Contracted by Philips to produce SOD87 Implotec Diodes.
- 2003** - Contracted by Philips to produce SOD80C Switching Diodes.  
 - Certified as environmental friendly "GREEN" facility (ISO14000).  
 - Contracted by ON Semi to produce Top Can Rectifiers.
- 2004** - Qualified by Littelfuse to develop Sidactor Cell Package Products.  
 - Expand glass diodes line capacity to 1.0 billion parts per month.  
 - Expand the MELF line capacity to 300kk parts per month.



## 2005

- Established TO-220 manufacturing capability, capacity up to 3kkpcs per month
- Established manufacturing capability for SOD-323 / SOD-123 with clip bond technology. Patent registered.
- Developed Press Fit Rectifier products for automotive market with our OEM partners.
- TS-16949 qualified.
- Achieve the highest Sub-con Award “IS&O Subcon Excellence Award 2005” from Philips.
- Implement RoHS Compliant products.



## 2006

- Qualified by Philips to produce SOD80C Zeners.
- Installed high volume manufacturing capacity SOD-323/SOD123 with 100Mpcs capacity per month by Q3'06.
- Achieve the highest Sub-con Award “IS&O Subcon Excellence Award 2006” from Philips.
- Expand axial glass diodes line capacity to 1.2 billion per month.
- Expand MELF diodes capacity to 360kk per month.



## 2007

- Qualified by Fairchild as subcontractor of its SOD323 Zener.

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# Subcontracted Diodes Products

(By Alphabetical Order)



Fairchild DO35 Zeners  
Fairchild DO35 Switchings  
Fairchild DO41 Zeners  
Fairchild LL34 Zeners  
Fairchild LL34 Switching  
Fairchild SOD323 Zeners



DO35 Diacs  
Sidactor Cell-package  
Mini MELF

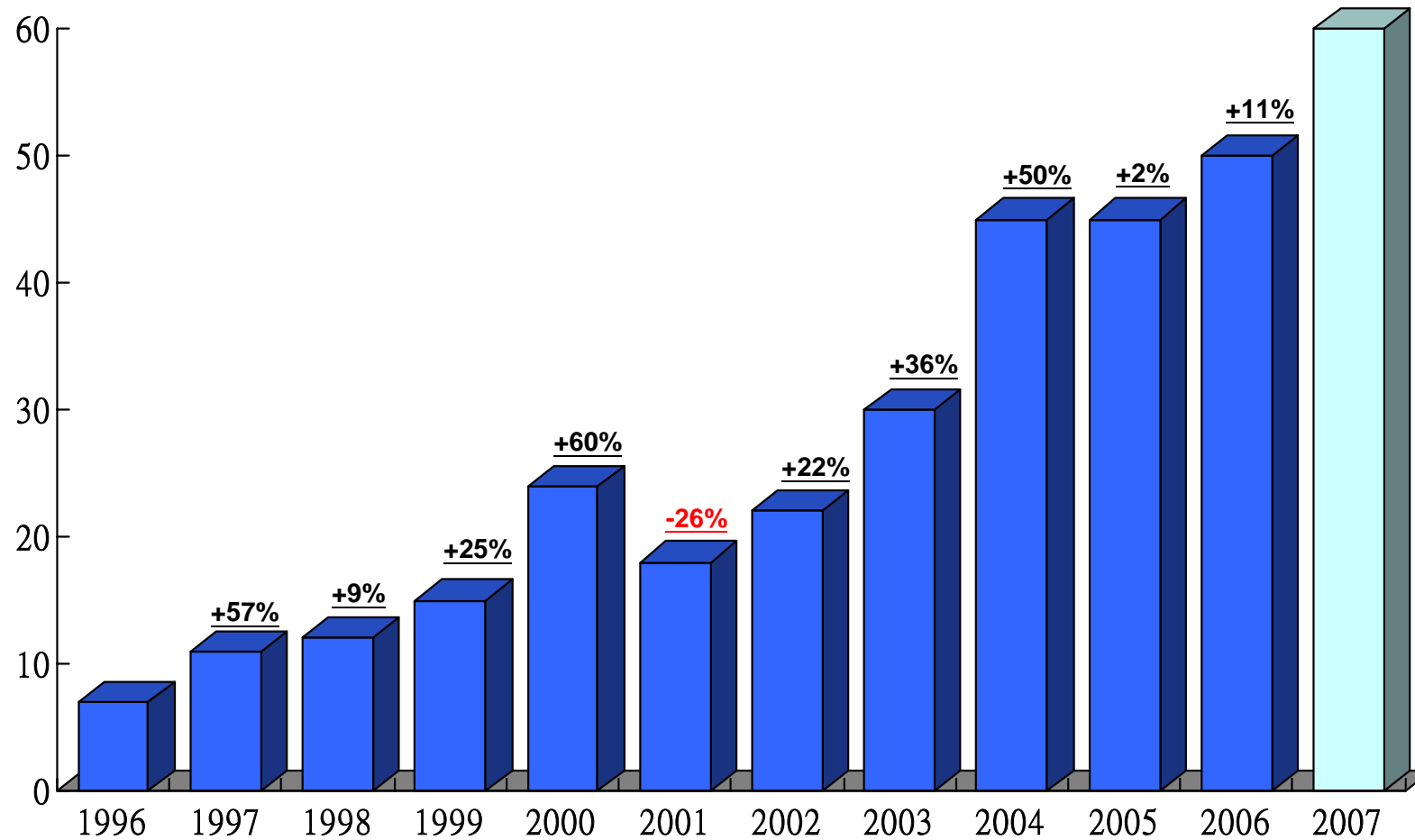


NXP SOD27 Zeners  
NXP SOD27 Switching  
NXP SOD87 Zeners  
NXP SOD87 Rectifiers  
NXP SOD87 Schottky  
NXP SOD80C Switching  
NXP SOD80C Zeners

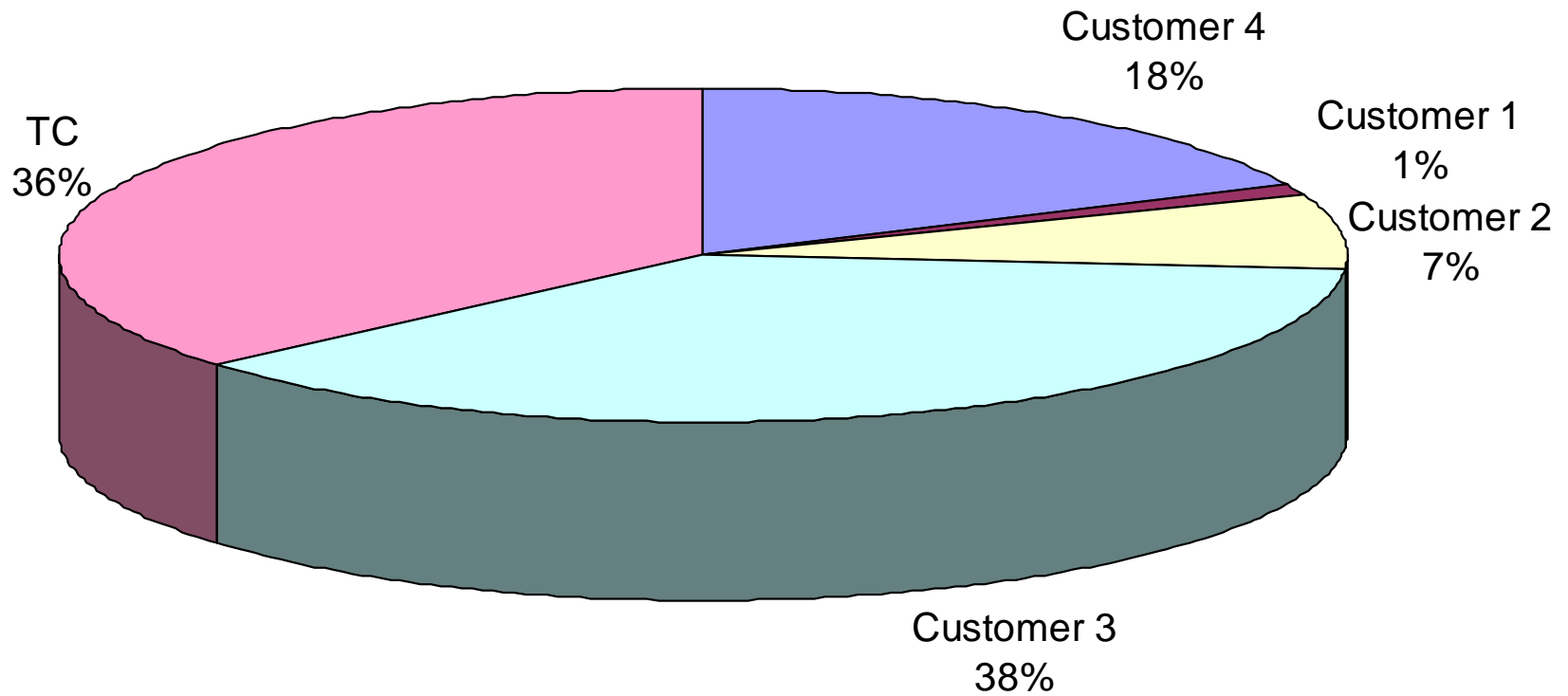


ON Semi Buttons Rectifiers  
ON Semi Axials Rectifiers  
ON Semi Surge Suppressors  
ON Semi SSTM  
ON Semi Zeners  
ON Semi Top Can Rectifiers

AIMING FOR US\$60M FOR 2007

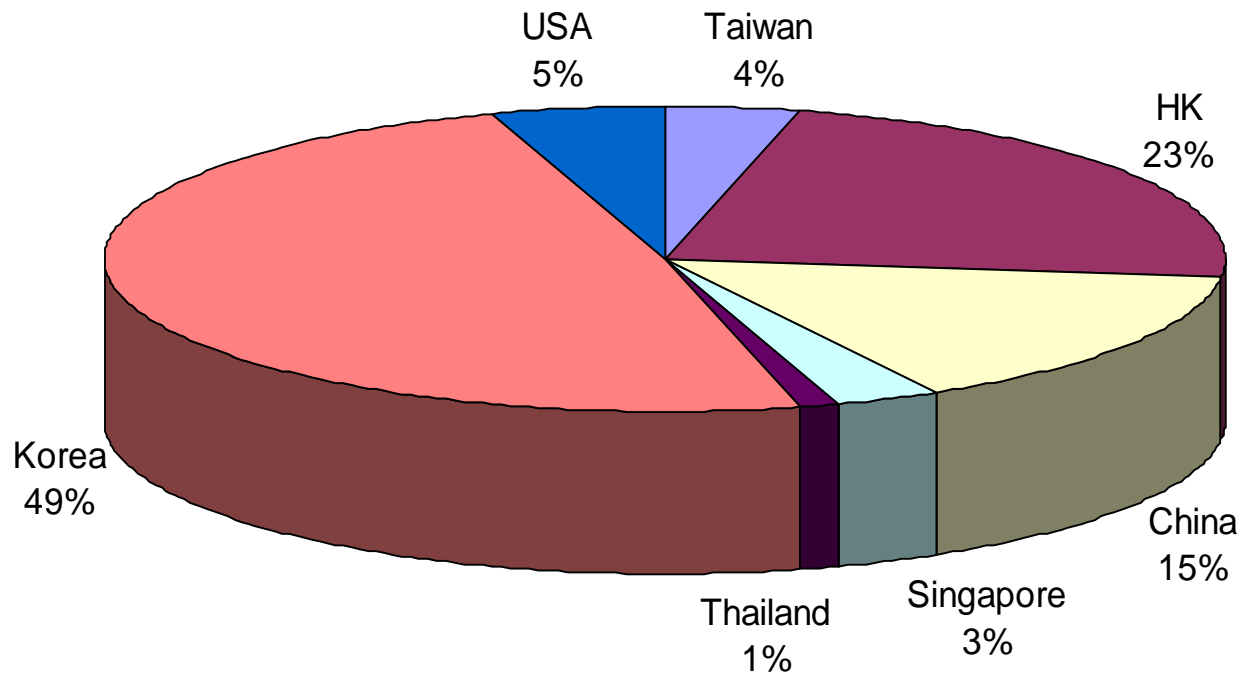


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## TC Brand & Other OEM Products

(Sales by Region – 2006 Data)



### Key Customers (by alphabetical order)

- Amoisonic**
- Celestica**
- Delta**
- Galanz**
- Huawei**
- Jabil**
- LG Electronics**
- PCTronix**
- Samsung Printer**
- Samsung Network**
- Samsung Telecom**
- Sung Ho**
- System Sensor**
- TSC**
- Visteon**

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- IATF Certificate no. : 0041851
- PSB Certificate no. : TS-2005-0087
- System Compliance: TS16949:2002 (1<sup>st</sup> Edition)
- Certifying Body : PSB

- Registration No. : UE034
- Certifying Body : CEPREI

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- **Tak Cheong Electronics manufacturing facility was recognized by Daimler Chrysler for outstanding quality and delivery performance placing this facility among the highest rated manufacturing locations.**

**July 2000**



- |  |                   |
|--|-------------------|
| • <b>Qualified Vendor of Delphi</b>        | <b>Nov. 2000</b>  |
| • <b>Qualified Vendor of Visteon</b>       | <b>Dec. 2000</b>  |
| • <b>Qualified Vendor of Siemens</b>       | <b>Feb. 2001</b>  |
| • <b>Qualified Vendor of Philips</b>       | <b>Jun. 2002</b>  |
| • <b>Qualified Vendor of Astec-Emerson</b> | <b>Nov. 2003</b>  |
| • <b>Qualified Vendor of Littelfuse</b>    | <b>Sept. 2004</b> |
| • <b>Qualified Vendor of Honda</b>         | <b>May 2005</b>   |

- Achieve the highest Sub-con award “IS & O Sub-con Excellence Award 2005” from Philips Electronics Hong Kong Limited.
- Achieve the highest Sub-con award “IS & O Sub-con Excellence Award 2006” from Philips Electronics Hong Kong Limited.

**June 2005**

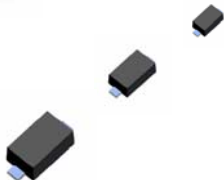
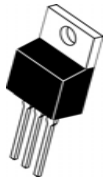
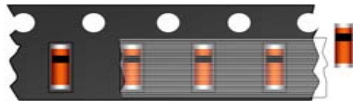
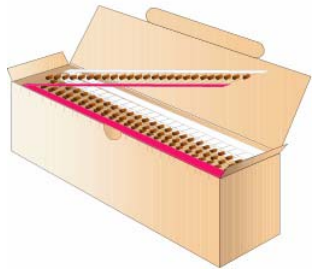
**July 2006**



- Qualified Vendor of Siemens VDO
- Qualified Vendor of Delta

**Apr. 2006**

**May 2006**



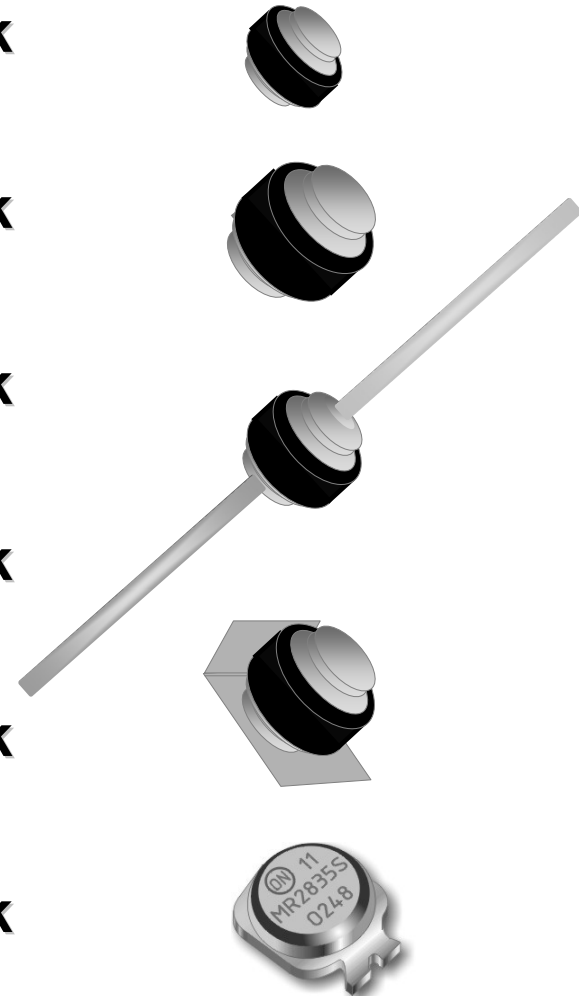
- DO-35/DO-34/DO41 : 1200KKPCS / month
- LL34 : 350KKPCS / month
- LL41 : 10KKPCS / month
- TO-220 : 3KKPCS / month
- AMR DIODES : 400KPCS / month
- PRESSFIT DIODES : 100KPCS / month
- SOD323/123 : 100KKPCS / month



**Automotive Metal Rectifiers**

(Exclusive for  )

- **Micro Buttons** : **200kpcs / week**
- **Jumbo Buttons** : **200kpcs / week**
- **Axial Rectifiers** : **250kpcs / week**
- **Surge Suppressors** : **250kpcs / week**
- **Surface Tab Mount** : **120kpcs / week**
- **Top Can Rectifiers** : **500kpcs / week**



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**Implotec Diodes (SOD87)**

(Exclusive for **NXP** )  
founded by Philips

**Hermetically-sealed**

**Cavity-free solid glass packaging technology**

**High surge capabilities at high temperature**

- **Zeners**
- **Schottky**
- **Rectifiers**



**Cell package**

(Exclusive for  **Littelfuse** )

**SURGE SUPPRESSORS  
OVER-VOLTAGE  
PROTECTIONS**



***TAK CHEONG***

“We Create the Future”