



Unisonic Technologies Co., LTD.



Let technology and environmental protection together to protect our earth, don't let the earth cry, We need you.



www.unisonic.com.tw

Company Overview

Headquarter

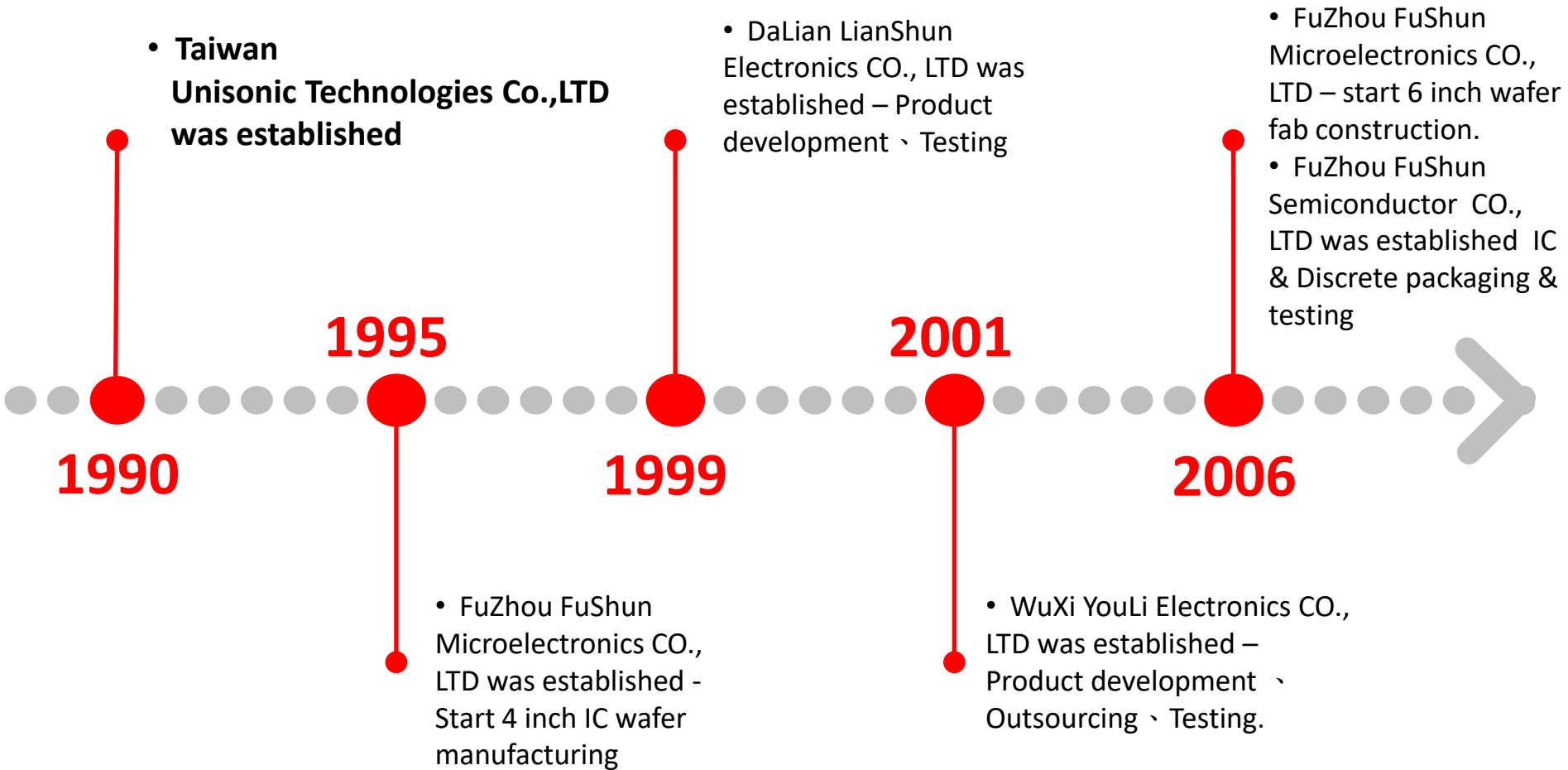


Address: 4F-2, NO.1, Lane
609, Sec.5 , Chung-Hsin RD.
San-Chung Dist., New Taipei
TEL:+886-2-2999-5013

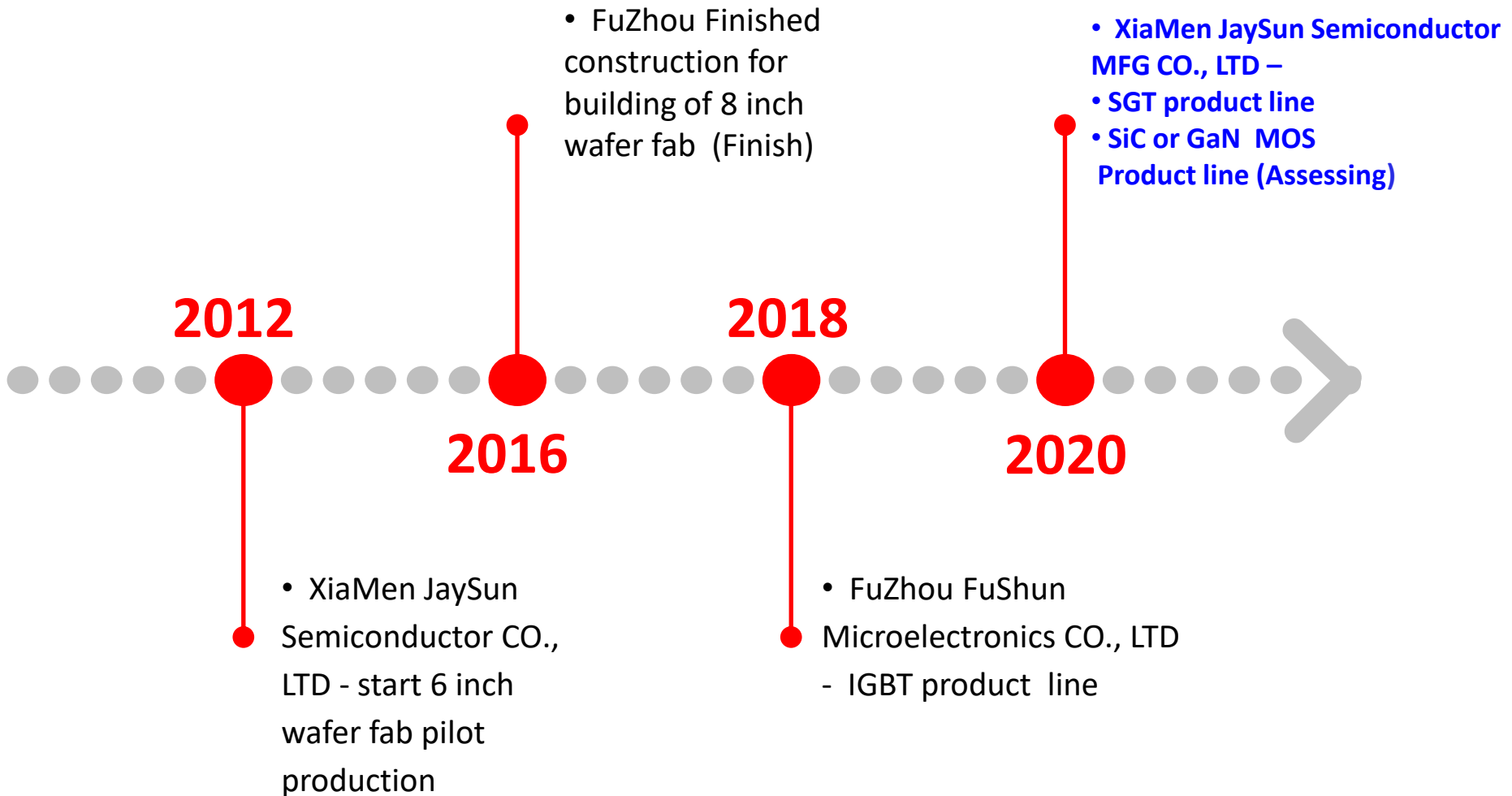
- Founded 1990.11 in Taipei.
- CEO : K.H. Kao
- Capital : Registered capital NTD 300 million.
(Group operating capital around NTD 5 Billion)
- Group Employees
 - ✓ Headquarters: 230 persons (20 R&D)
 - ✓ Worldwide: 1,600 persons (150 R&D)
- Fabs
 - ✓ 4" & 6" Fabs in Fuzhou and Xiamen
- Factory in Fuzhou (Packaging & Testing)
- Strong technical team in Taipei, DaLian, Wuxin, Shenzhen and Xiamen.



Milestone



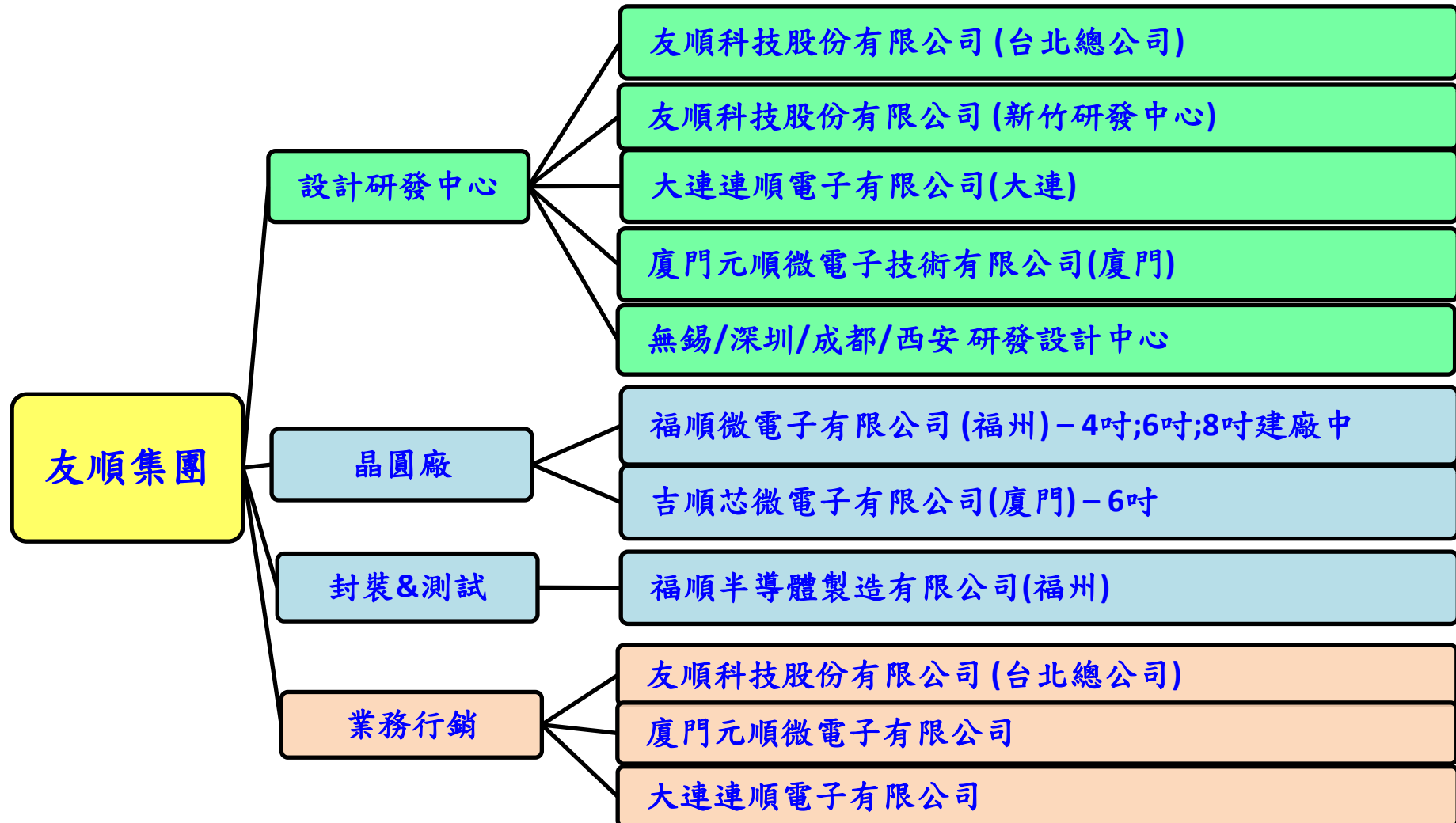
Milestone



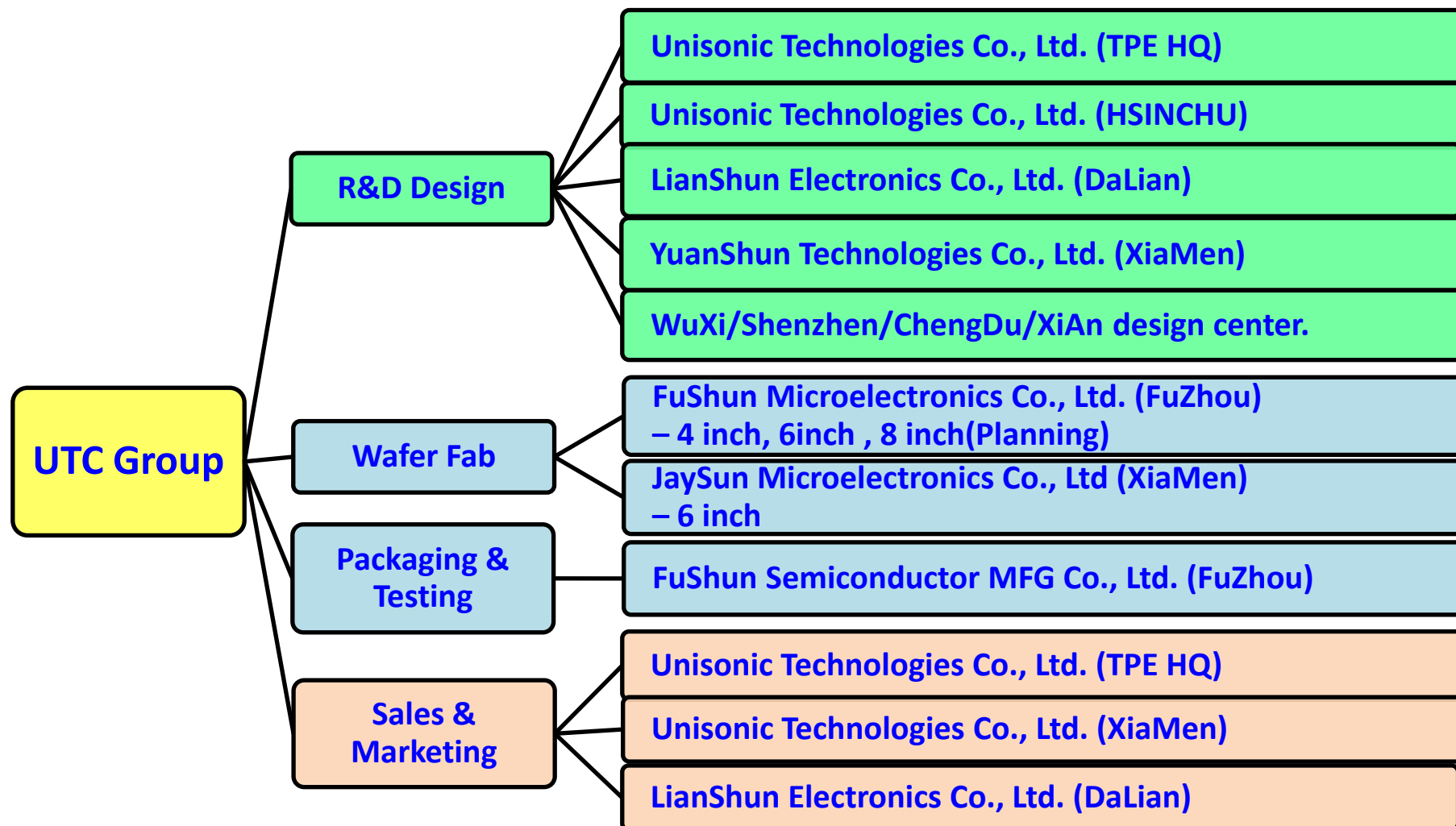
Organization (Group)



Organization (Branch)



Organization (Branch)



Group Distribution



Headquarters
(Sales, R&D
and FAE)



Fuzhou/ FS
(Wafer Fabs)



Xiamen/ JS
(Wafer Fabs)



**Fuzho
Factory**
(Package)



**R&D
Center**

We are IDM , Because of with strong vertical integration power

Confidential



Customers in Taiwan



Customers in China



中国·振华



Customers in World wide

AVAYA

intelbras

CASIO

TechniSat[®]
DIGITAL
DAS ORIGINAL

 **BOSCH**

VESTEL

NEC Empowered by Innovation

JVC / PRO

oplon

SHARP

Panasonic
ideas for life

 **Driving Vision**

bharti

 **FUNAI**
DIGITAL VISUAL ENTERTAINMENT

SONY

brother.
at your side

Pioneer

SAMSUNG

 **LG**

Life's Good

 **ibratel**
Integração Brasileira de Telecomunicações

PPA 25 YEARS
COMFORT WITH SECURITY

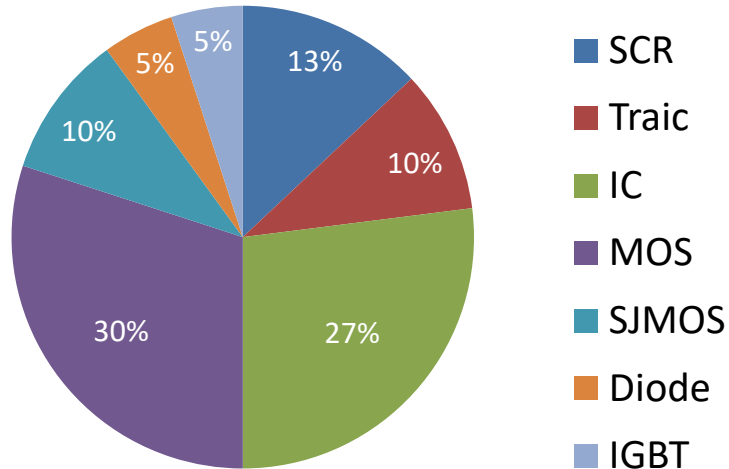
 **NVIDIA**

UTC

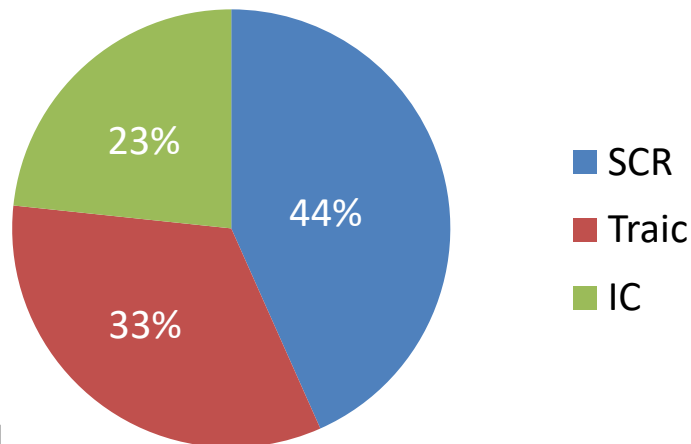
Wafer Fabs Capacity

Fu Shun Microelectronics Co., LTD (Fuzhou)

Product share rate of 6" wafer



Product share rate of 4" wafer

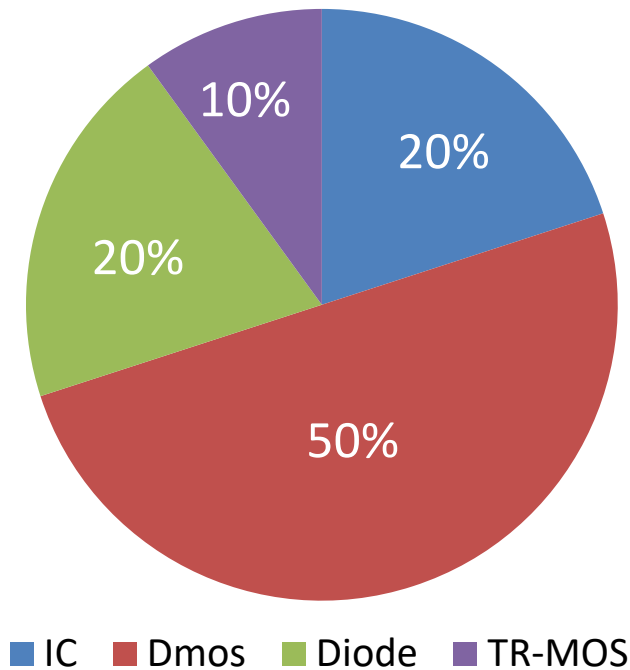


- 4"/6" wafer for CMOS/Bipolar/BCD/Power Device
 - 30,000 wafers /M for 4" (max)
 - 50,000 wafers /M for 6" (max)
- Awarded ISO 9001:2008, ISO14001:2004, GB/T28001:2011 and ISO/TS16949:2009.
- IC products account for 25,000 pieces
 - CMOS, Bipolar and BCD. .etc
- MOS products account for 45,000 pieces
 - Planar-MOS , Super Junction - MOS, IGBT and Diode..etc.

Wafer Fabs Capacity

Jay Sun Semiconductor Manufacturing Co., LTD (Xiamen)

Product share rate of 6" wafer



- 6" wafer for CMOS/BCD/Schottky Diode/DMOS and other power devices.
 - 0.35um Process
 - 50,000 wafers /M (max)
- Awarded ISO 9001:2008
 - IC products account for 10,000 pieces
 - CMOS and BCD..etc.
 - DMOS products account for 35,000 pieces
 - Planar-MOS , Planar-Diode and Planar-IGBT..etc.
 - TR-MOS products account for 5,000 pieces
 - TR-MOS, TR-SBD, TR-IGBT..etc.

Packaging Capacity (FM)

Fushun Semiconductor Manufacturing Co., LTD. (Fuzhou)

- 380M units produced per month
 - CP/ BGBM/ Assembly/ Final Test
 - THD/ Leaded SMD/ Leadless packages
- Process:
 - Die attach: Epoxy/ Eutectic/ Sold
 - Wire Bonding: Au/ Cu/ Al wire
 - Halogen Free/ Lead-free
 - Assembly Capacity : 300 Wirebonders / 320 Testers
 - ISO9000/ ISO14000 / IATA16949 Certification

測試工程處	品保處	生產事業部	工藝工程	設備工程處	動力部	營運管理處
22 人	60 人	310 人	15 人	22 人	7 人	70 人
4.3%	12%	61%	3%	4.3%	1.4%	14%

FM Factory , We accept customer's OEM order .

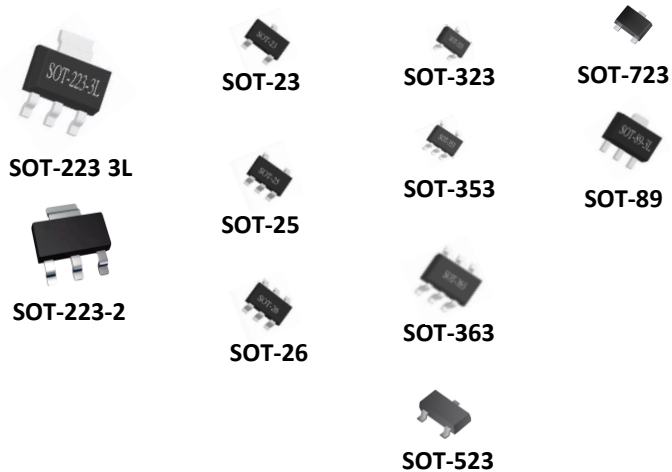


General Package Serving

TO	TO	SOT	Q/DFN	DIP	SOP
• TO-3P • TO-247 • TO-220 • TO-220Fx • TO-262 • TO-263 • TO-251x • TO-252x	• TO-92x • TO-94 • TO-126x	• SOT-113 • SOT-223 • SOT-23-x • SOT-89 • SOT-3x3 • SOT-5x3 • SOT-7x3	• DFN5x6 • DFN3x3 • DFN3x2 • DFN8x8	• DIP-x • SDIP-x • HSIP-x • SIP-x	• SOP-x • HSSOP-x • HTSSOP-x • ESOP • LSOP • SMD

General Package Serving

SOT series



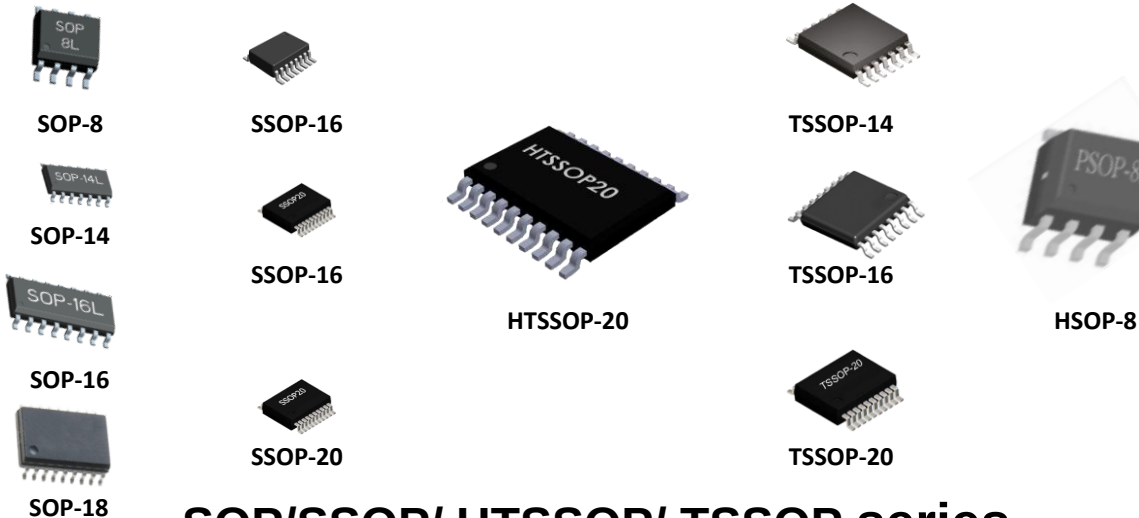
SIP series



SMD series



DFN series

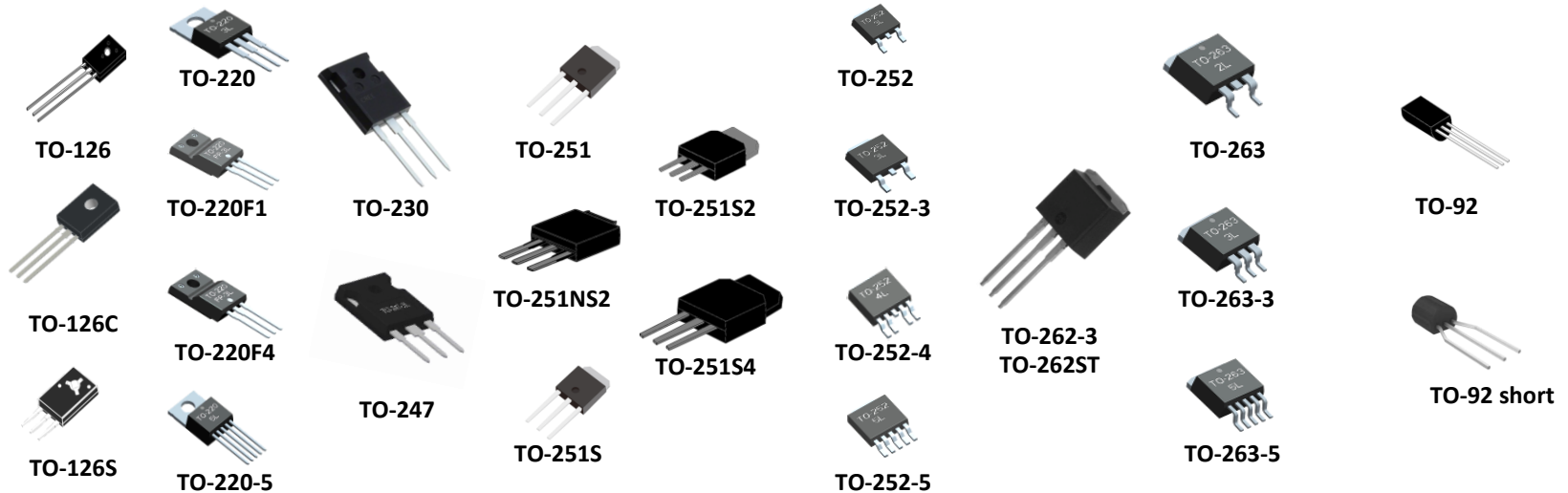


SOP/SSOP/ HTSSOP/ TSSOP series

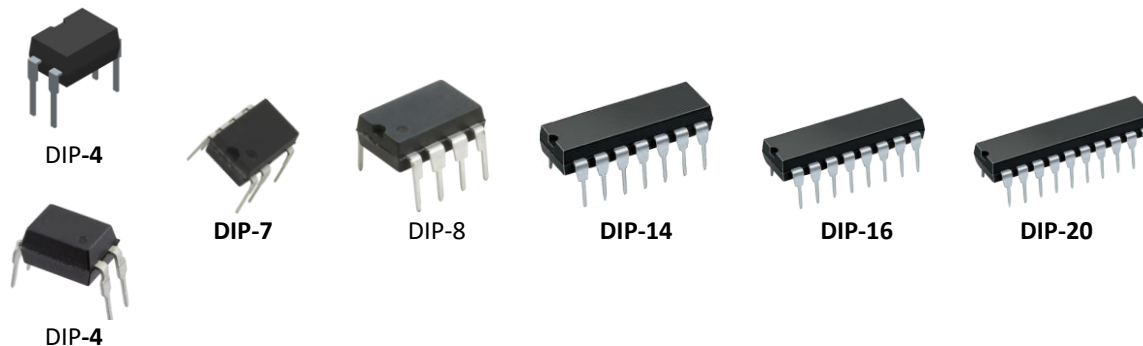


General Package Serving

TO series



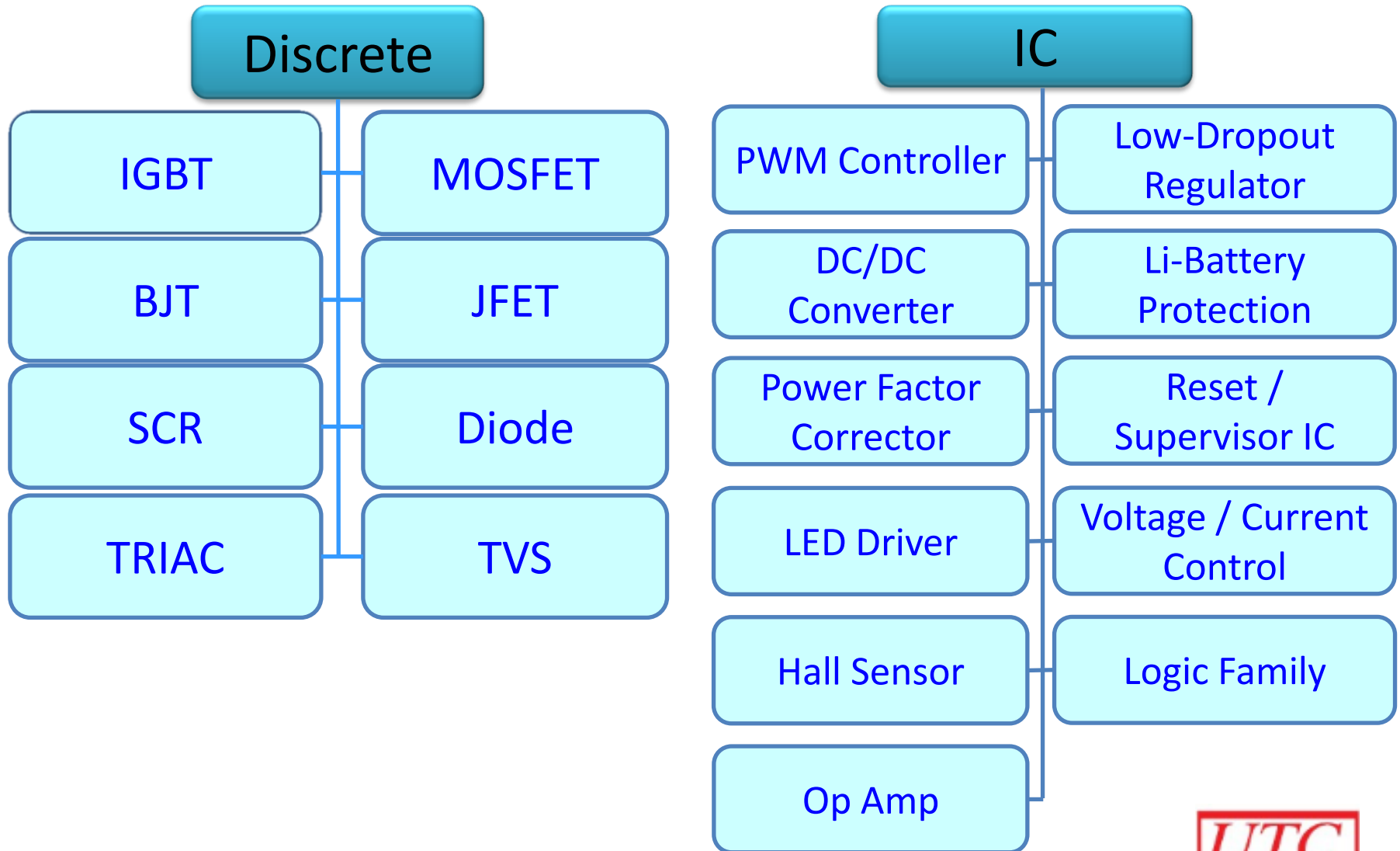
DIP series



SC series



Product Tree



Discrete Product List - MOSFET

Super Junction MOSFET

- 500V to 950V (Multilayer)
- With Fast Body Diode

Trench MOSFET

- 12V to 200V
- Single / Dual /Quad

SGT MOSFET

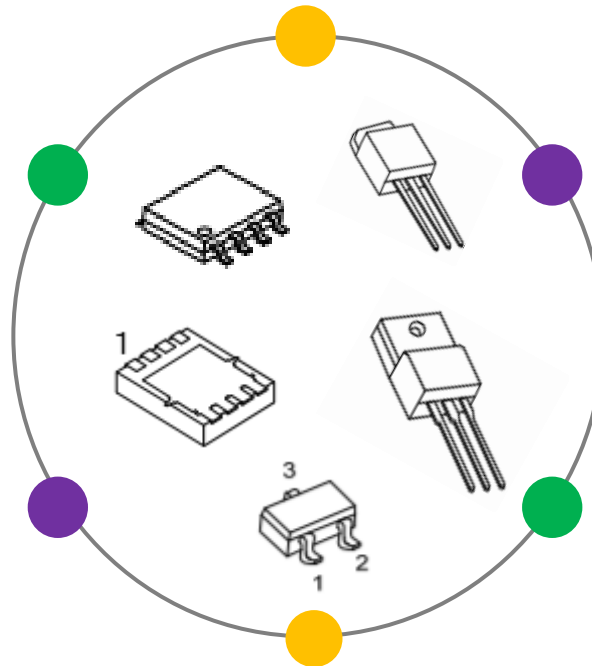
- Developing

Planar MOSFET

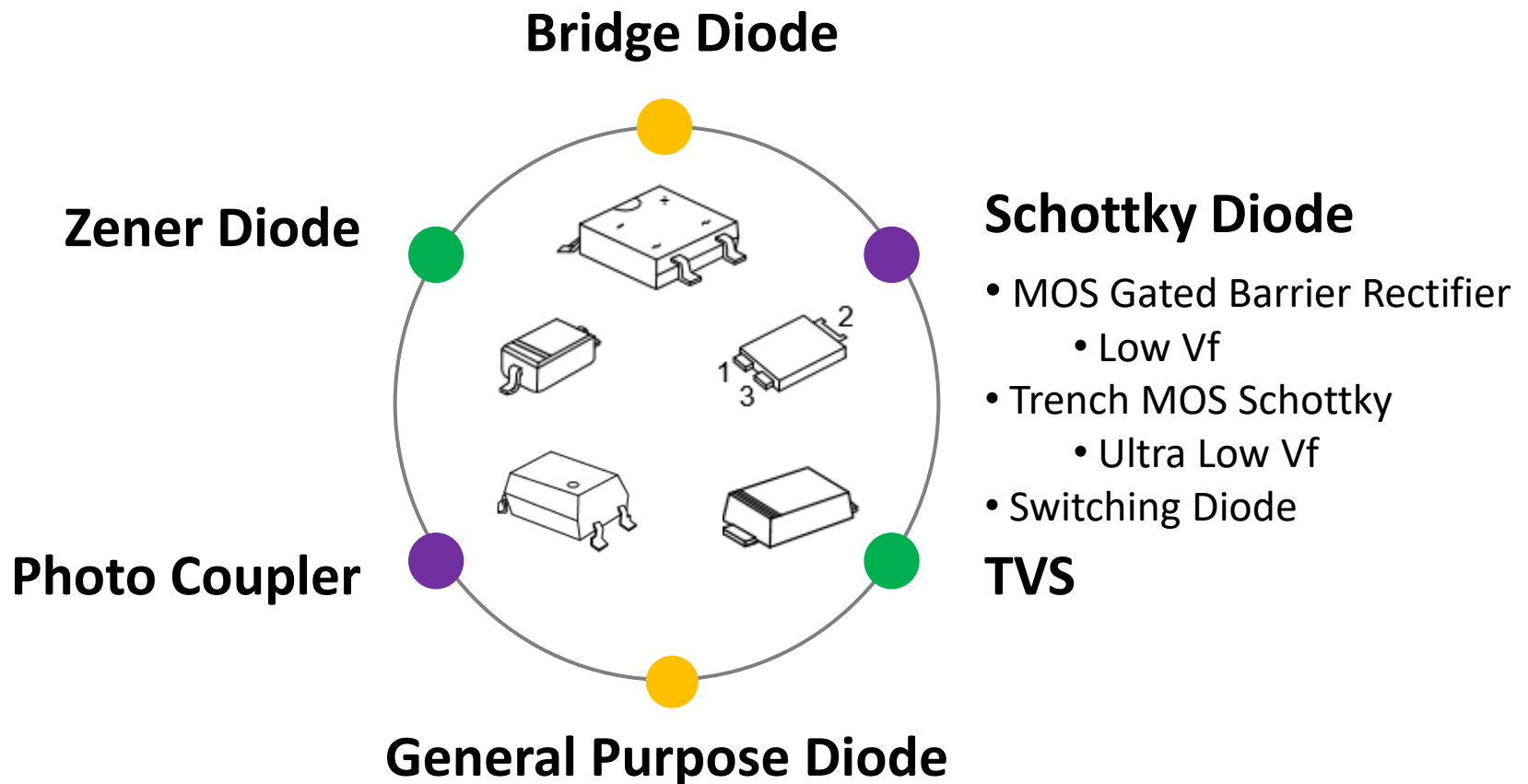
- 55V to 1500V
- With Fast Body Diode

JFET

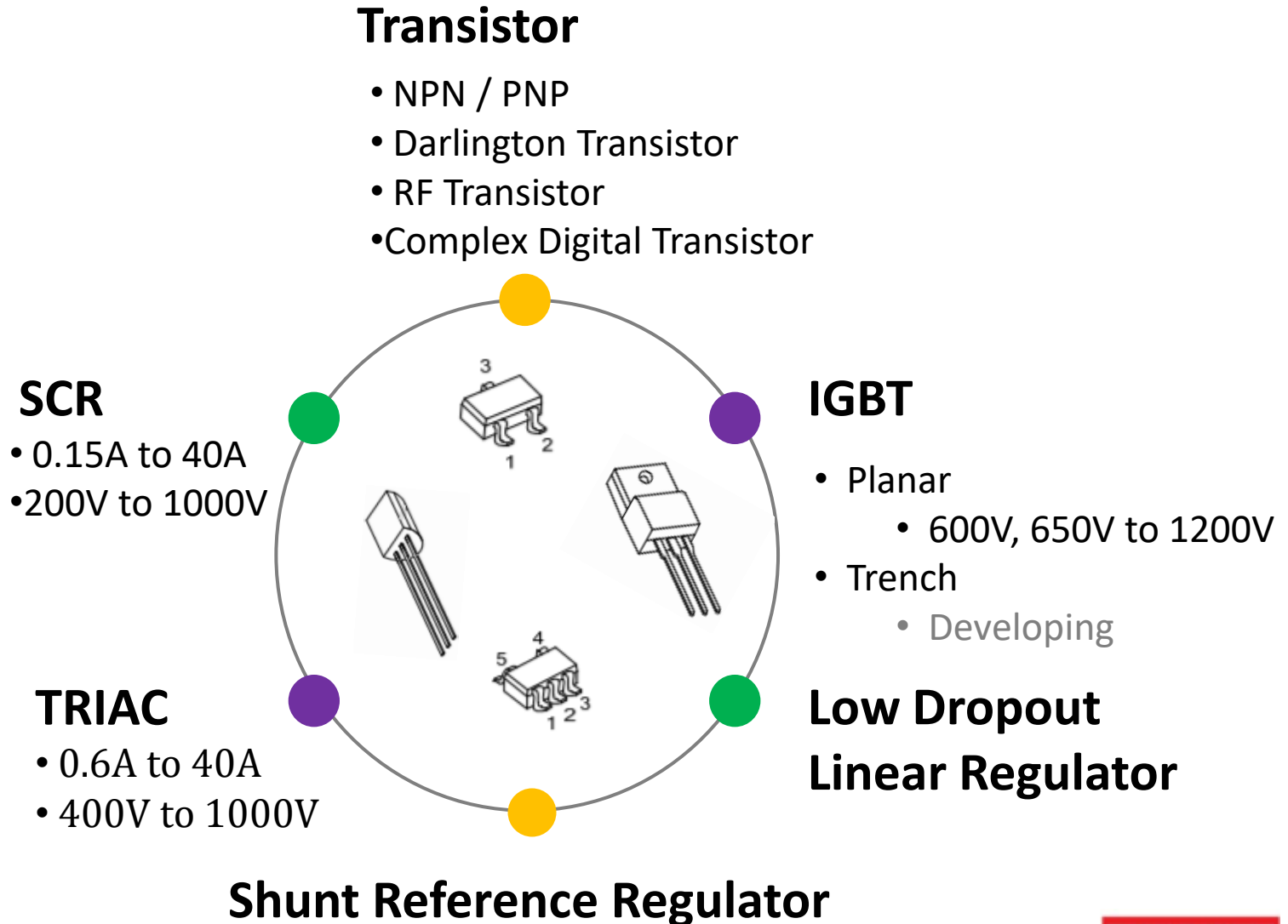
Small Signal MOSFET



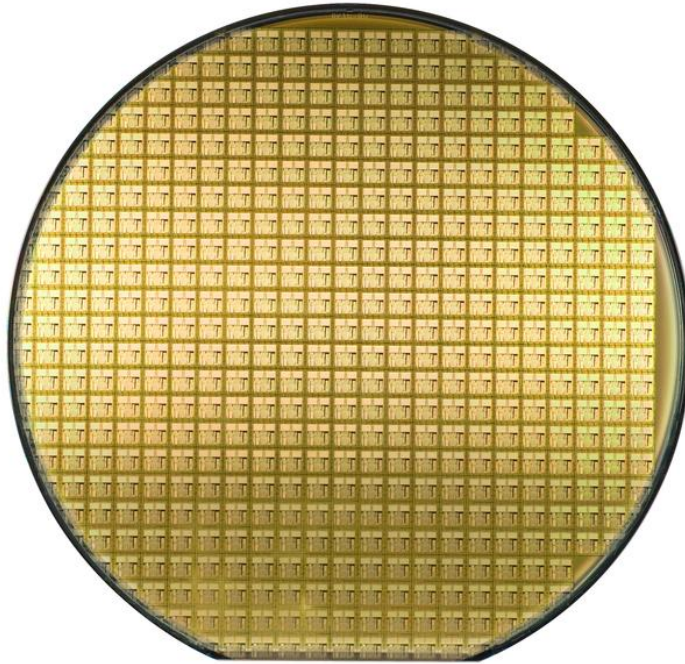
Discrete Product List - Diode



Discrete Product List - Others



WAFER



- We provide the wafer for customer as well.
- We accept customer's own design and production in our fab.
- We accept customer's OEM order.

For More Product Information

 友順科技股份有限公司
UNISONIC TECHNOLOGIES CO.,LTD

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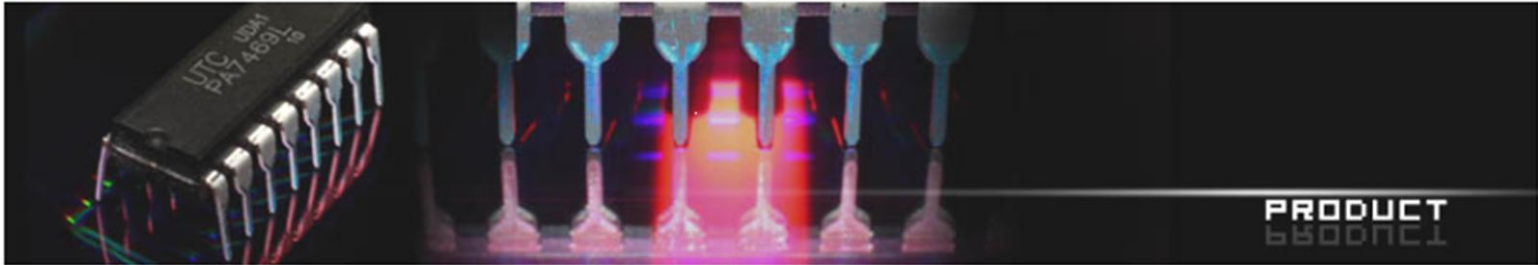
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Demo Board

替代料

環境合規宣告



Unisonic Technologies Co., LTD.



Equipment Introduction (Fab)

■ Photo

- 步進光刻機 (Stepper) -- NSR2005I11D (6")
- 塗膠顯影機 (Track)



極限分辨率 $0.35\mu\text{m}$, $\text{NA}=0.57$



Range可以達到 $50\text{\AA}$ ，為 $0.35\mu\text{m}$ 的工藝研發，提供良好的膠厚均勻性支持。

Equipment Introduction (Fab)

■ Diffusion

- TEL VCF-615S 立式爐



TEL公司生產，其生長的膜層均勻性更好，工藝能力可以滿足0.35um產品的要求。

- TEL UL2604 臥式擴散爐



由TEL公司生產，目前公司擁有7台該型臥式擴散爐，共28根爐管。產能和工藝靈活性都很強。

Equipment Introduction (Fab)

■ Dry Etch

- Unity II 65DP



主要用於SiO₂ ETCH,設備具備0.35um線寬的刻蝕能力,能夠更好的控制選擇比和刻蝕剖面

- TEGAL 6510



主要用於Poly ETCH,設備具備0.35um線寬的刻蝕能力,可以更好的控制多晶柵PROFILE及OX loss,雙工藝腔,產能較高

Equipment Introduction (Fab)

■ Wet Etch

- Pre-Clean Wet Bench (DNS WS-W625)



全自動作業，產能高，操作簡易，顆粒少；CDS供液，容易控制，換液週期長；採用先進的IPA提拉法脫水，極大的減少矽片的顆粒污染。

- EKC-Clean (SEMITOOl SSTC632280)



全封閉式作業，減少污染及安全事故的發生；採用噴霧清洗的形式，減少了藥液的用量；機台自帶供液系統，不需要再另配CDS供液系統。

Equipment Introduction (Fab)

■ Thin Film

- Eclipse Star Mark II PVD



MRC公司生產，主要應用於金屬濺射工藝，其工藝能力可達 0.35um

- Centura5200 WCVD



美國AMAT公司生產，主要應用於0.5um以下錫塞填孔工藝，其工藝能力可達 0.25 um

Equipment Introduction (Fab)

■ Implant

- E220HP 中束流離子注入機



VARIAN公司生產，注入劑量範圍可達 $5.0E11 \sim 2.0E16$ ，同時可滿足 $0-60^\circ$ 範圍的大角度注入需求

- NV-GSD-160



NV-GSD-160 大束流離子注入機 由 EATON公司生產，注入劑量範圍可達 $1.0E14 \sim 2.0E16$ ，可滿足 $0.35 \mu m$ 工藝需求



UNISONIC TECHNOLOGIES CO., LTD.

AC/DC Power Supply Application

Switching Power Supply

- Open frame PSU
- Computer PSU
- Adapter
- USB Charger



- Major Power supply manufacturers

LITEON

PHIHONG

AcBel

康舒科技
ACBEL POLYTECH INC.

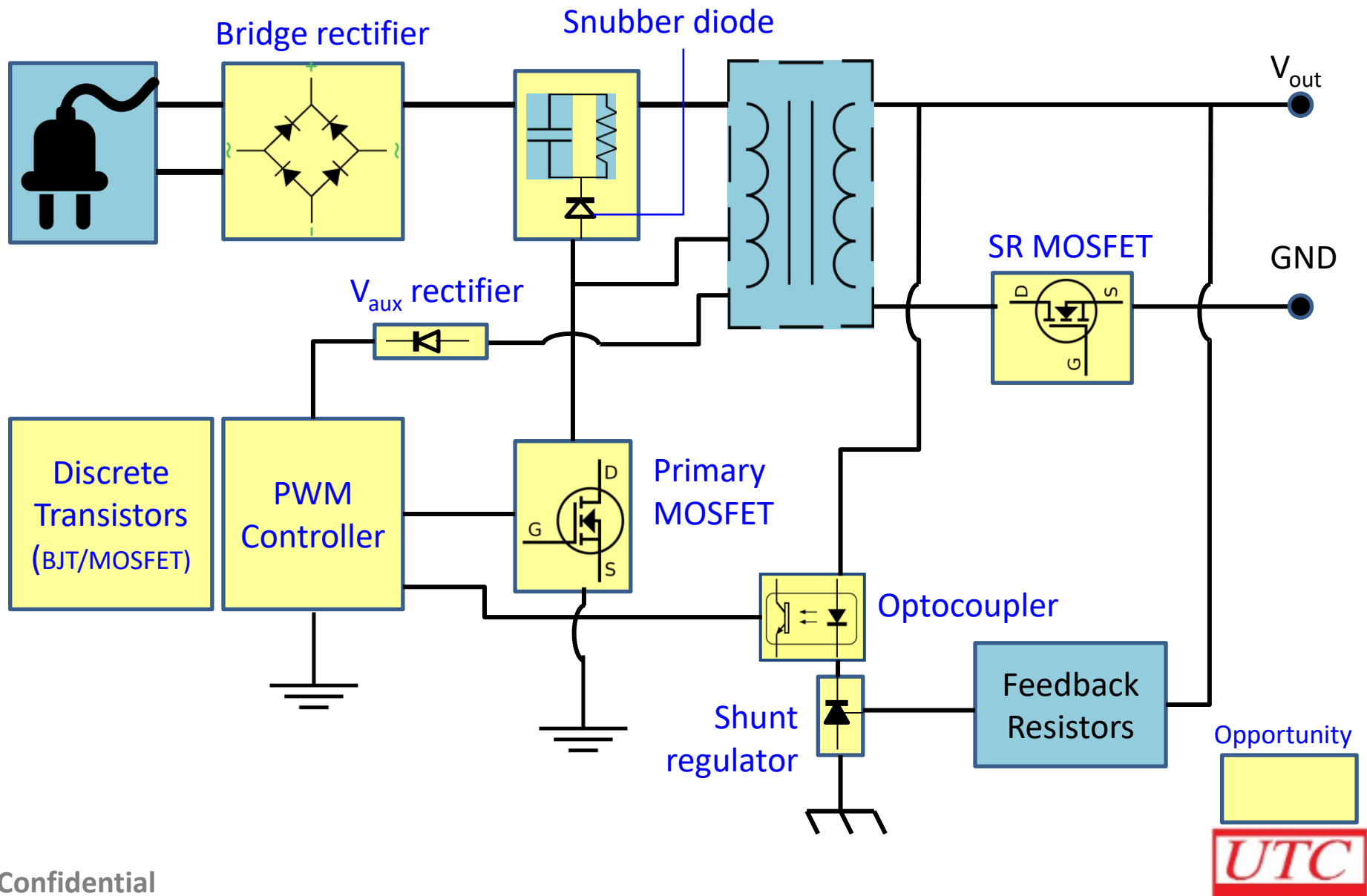
Chicony[®]

Salcomp

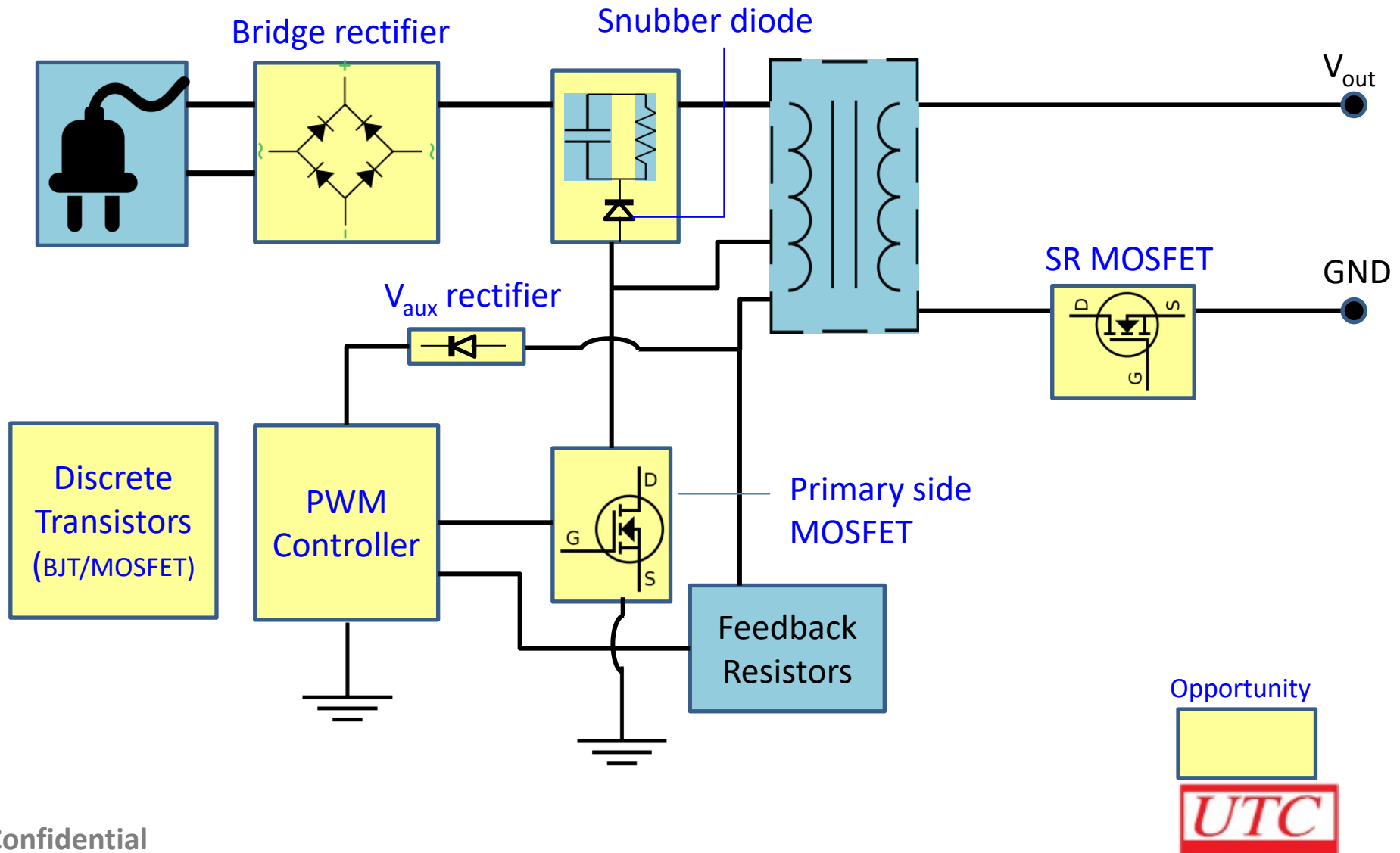
全漢電源
POWER NEVER ENDS

UTC

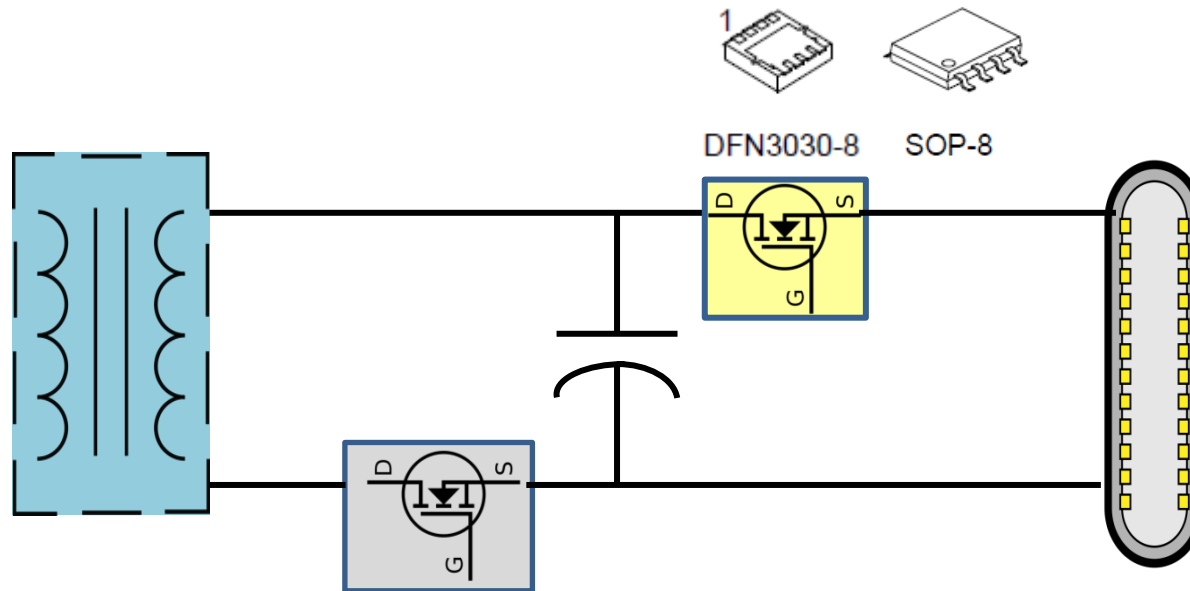
SSR Flyback Block Diagram



PSR Flyback Block Diagram



USB – PD Output Switch



Opportunity

