



UNISONIC TECHNOLOGIES CO., LTD.

Company Profile 2017v



Overview

■ **Founded:** Jan. 1990

■ **Global Operations:**

Taipei, Taiwan ()
China
Japan
USA
Germany
Turkey



■ **Capital :**

US \$ 20 millions (TPE)

■ **Employees:**
20 QA

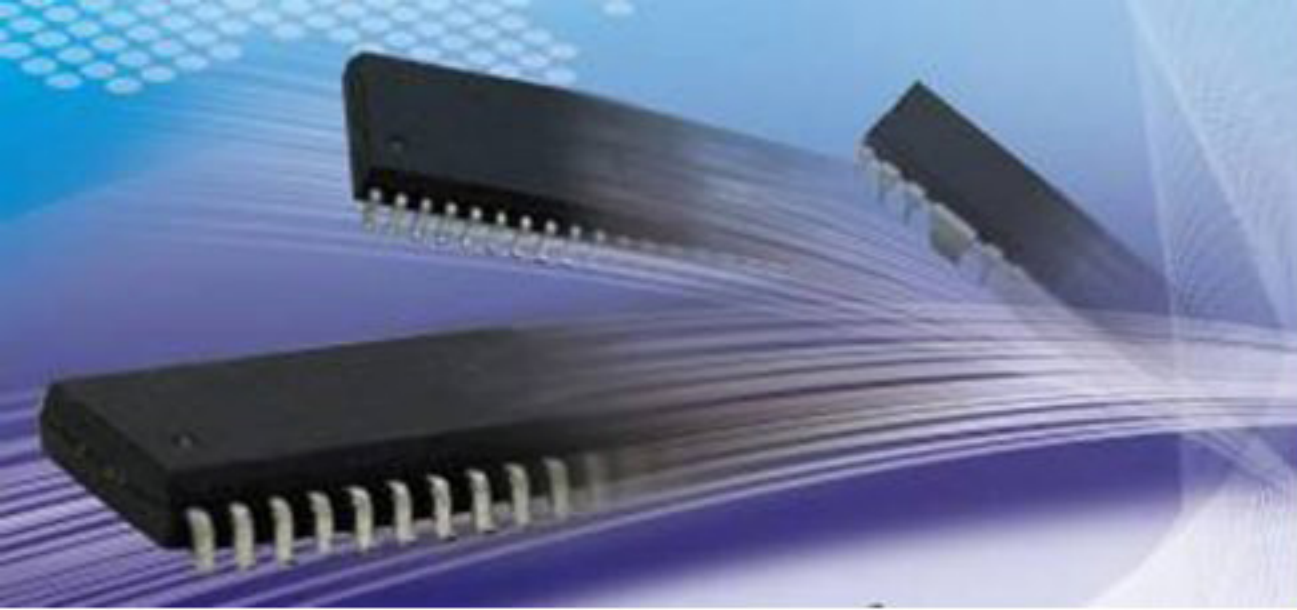
Headquarters: 300 persons, 40 R&D

R&D 225 QA

Worldwide: 2,300 persons, 150

■ **2016 Revenue:**

US\$ 331 Million

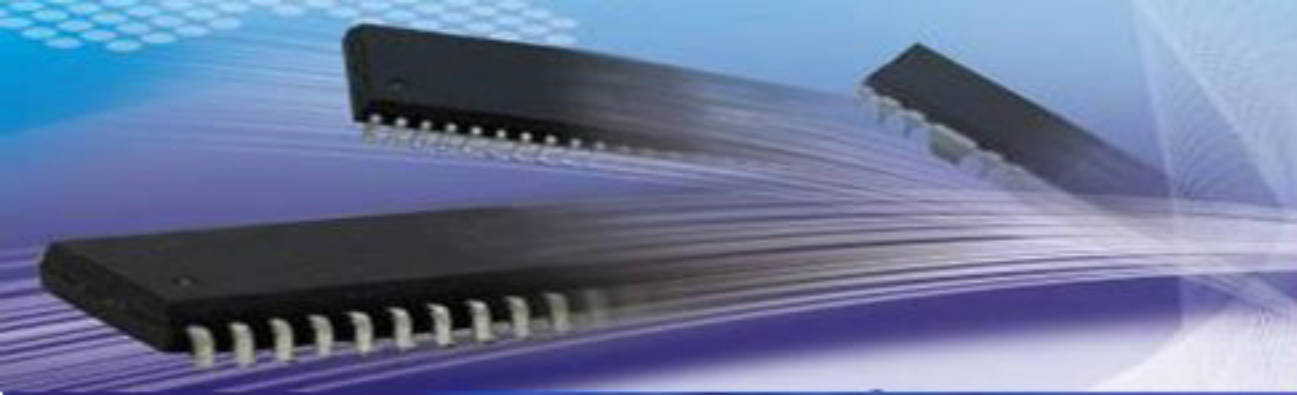


UTC Philosophy

- Started as an Analogue IC Design House, UTC now has a strong team of R & D professionals who are dedicated to constant innovation of technologies and the improvement of production procedures. The drive to provide the best quality devices to our customers has led us further down the road of IC manufacturing.
- In 1995, UTC decided to set up a solely owned production line. We acquired two wafer fabs and one IC packaging plant which allow us to produce the best quality IC devices and discrete components to satisfy our global customers' needs.

UTC, *Your Best Partner for Total Solutions!*





UTC Group Introduction

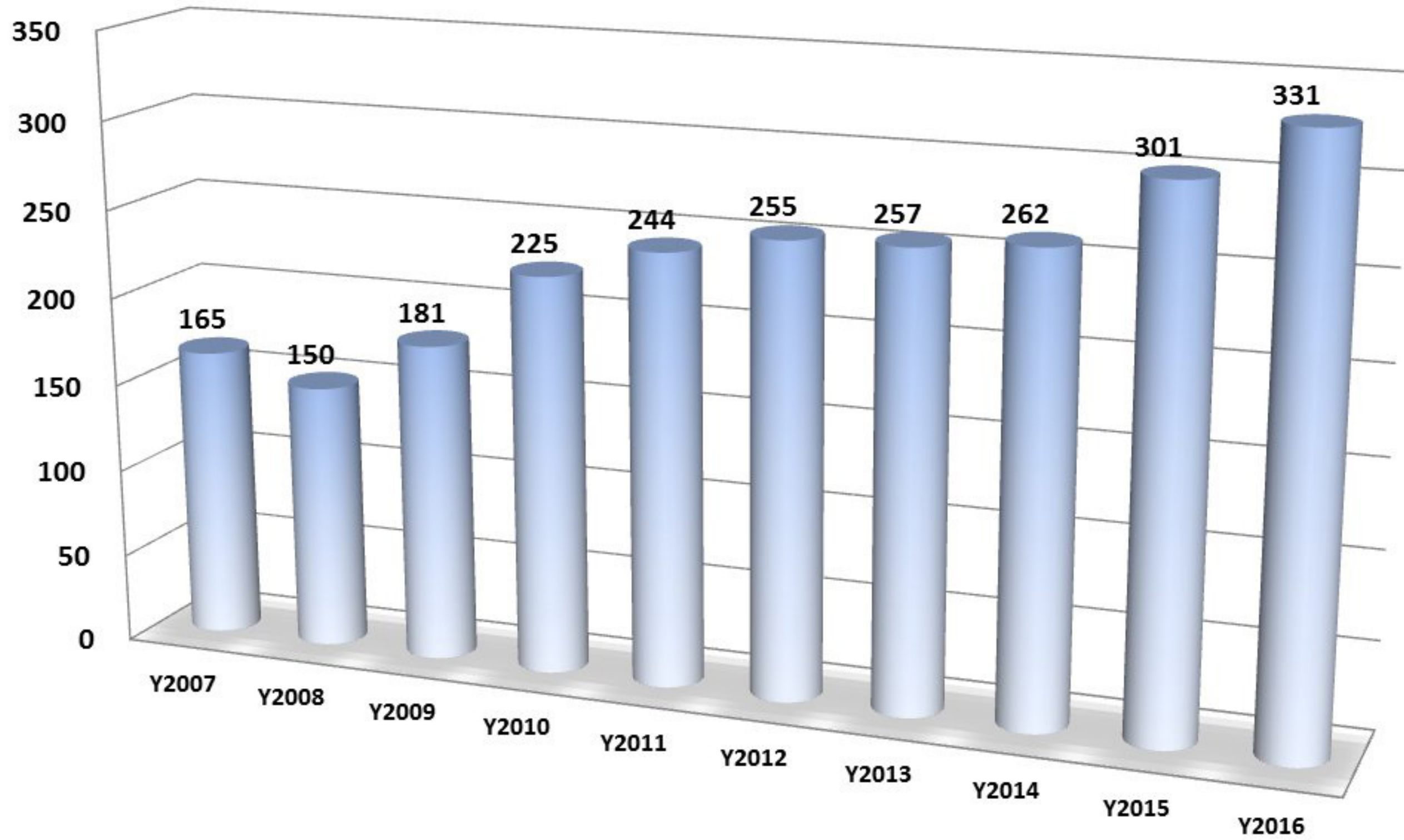
	Site	Capacity
 Design	Taiwan x 2 China x 6	1. Circuit design 2. Pattern layout 3. Process development
	(XiaMen) Jaysun Semiconductor Manufacturing	6" CMOS/BiCMOS/DMOS 50k / month
 Wafer	(FuZhou) Fushun Microelectronics	6" CMOS/Bipolar/BiCMOS 100k / month
	(FuZhou) Fushun Semiconductor Manufacturing	Assembly / Final test 300M / month
Packaging	(FuZhou) Fushun Semiconductor Manufacturing	Assembly / Final test 300M / month
Sales	Taiwan, China, Japan, Germany, Turkey, USA	





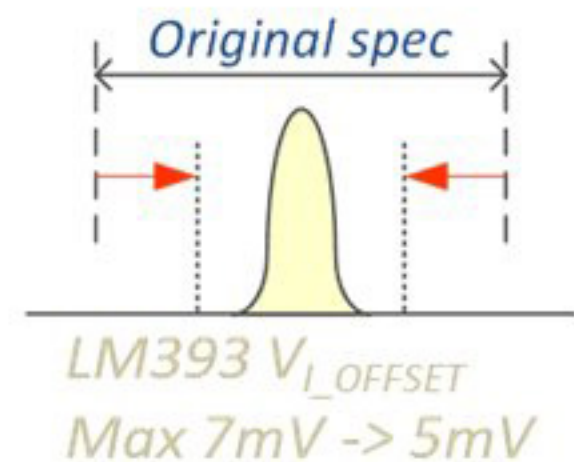
UTC Group Sales Revenue

Unit: M\$



Why UTC

- ◆ IDM provider- circuit design, manufacturing , packaging and sales.
- ◆ Short lead time and competitive price.
- ◆ Diversity of product series-Application IC and Discrete.
- ◆ Widely sales channel - Taiwan, China, Japan, USA, Europe.
- ◆ Integrated quality control system.
- ◆ Strong R&D team- customize and technical support.



UTC is Your Best Partner for Total Solutions!



Product Portfolio

* AC-DC Power Management

- * AC-DC PWM controller / switcher
- * AC/DC LED lighting driver
- * PFC controller
- * Photo-coupler
- * Shunt voltage reference
- * CC/CV circuit (TL431 + op amp)

* DC Power Management

- * Linear voltage regulator
 - * 78- 79- 317 series
 - * BJT / CMOS LDO (single/dual)
 - * DDR termination regulator (~DDR4)
- * DC-DC switching regulator
- * Power switch IC
- * Li-ion battery IC
 - * Protection
 - * Charge

* System Management

- * Logic family
 - * 74 series logic gate (AUP/AUC series)
 - * Bus switch / mux
- * Reset / voltage detection IC
- * Comparator

* Analog Signal

- * Op amplifier
- * Audio amplifier
- * Audio / video interface

* Interface IC / Driver Array

- * RS-232 / RS-485 / RS-422 Interface
- * Darlington array driver

* Motor Control

- * DC fan / stepper motor
- * Control IC

* Hall IC

Product Portfolio

* Application Specific IC

- * Automotive IC (Ignition, Flasher...)
- * Timer IC (555 series)
- * Leakage Current Detector /
Ground Fault Interrupter
- * Speaker-phone / Telephone IC
- * Melody IC
- * Alarm / Sound Generator
- * FET bias controller (for LNB)
- * MCU Interface
- * Remote Controller IC
- * Christmas Lamp Controller
- * Television Circuit
- * A-D or D-A Converter
- * Radio Cassette Recorder Circuit
- * Miscellaneous

* MOSFET (Single / Combo)

- * Trench MOSFET (10~200V)
- * Planar MOSFET (30~1000V)
- * Super-junction MOSFET (500~900V)

* IGBT (600/1200V)

* JFET

* BJT (Single / Combo)

- * High-power BJT (power / audio)
- * Darlington transistor (/Array)
- * Digital transistor (resistor-biased)

* Diode (low- V_F / ultrafast)

- * FRED (~1200V)
- * Schottky (~200V)
- * Zener diode
- * Bridge rectifier
- * MGBR / TGBR
- * CRD

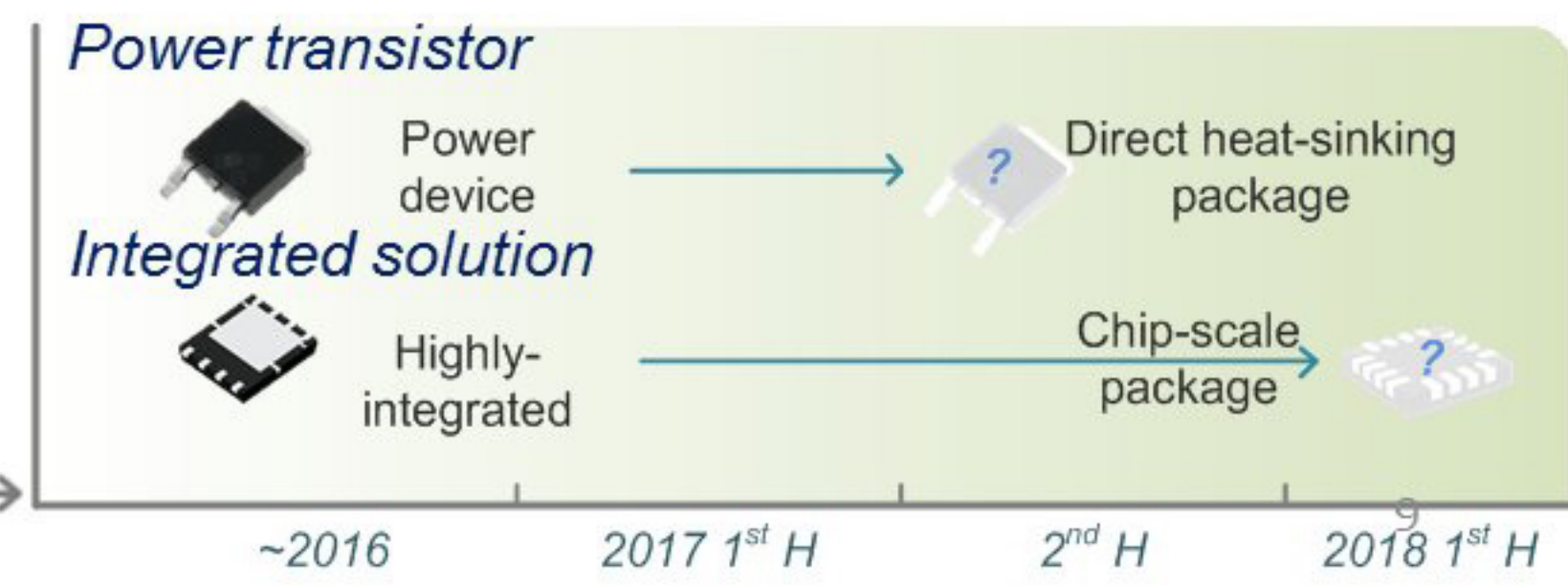
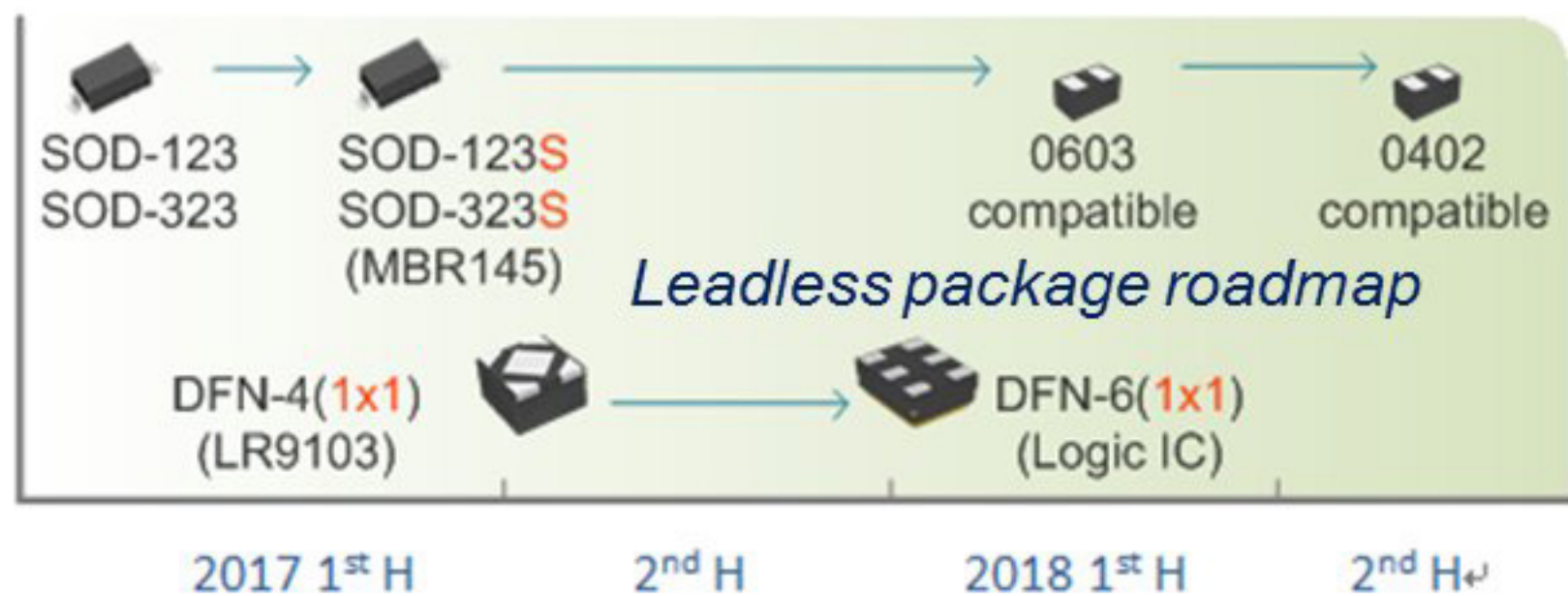
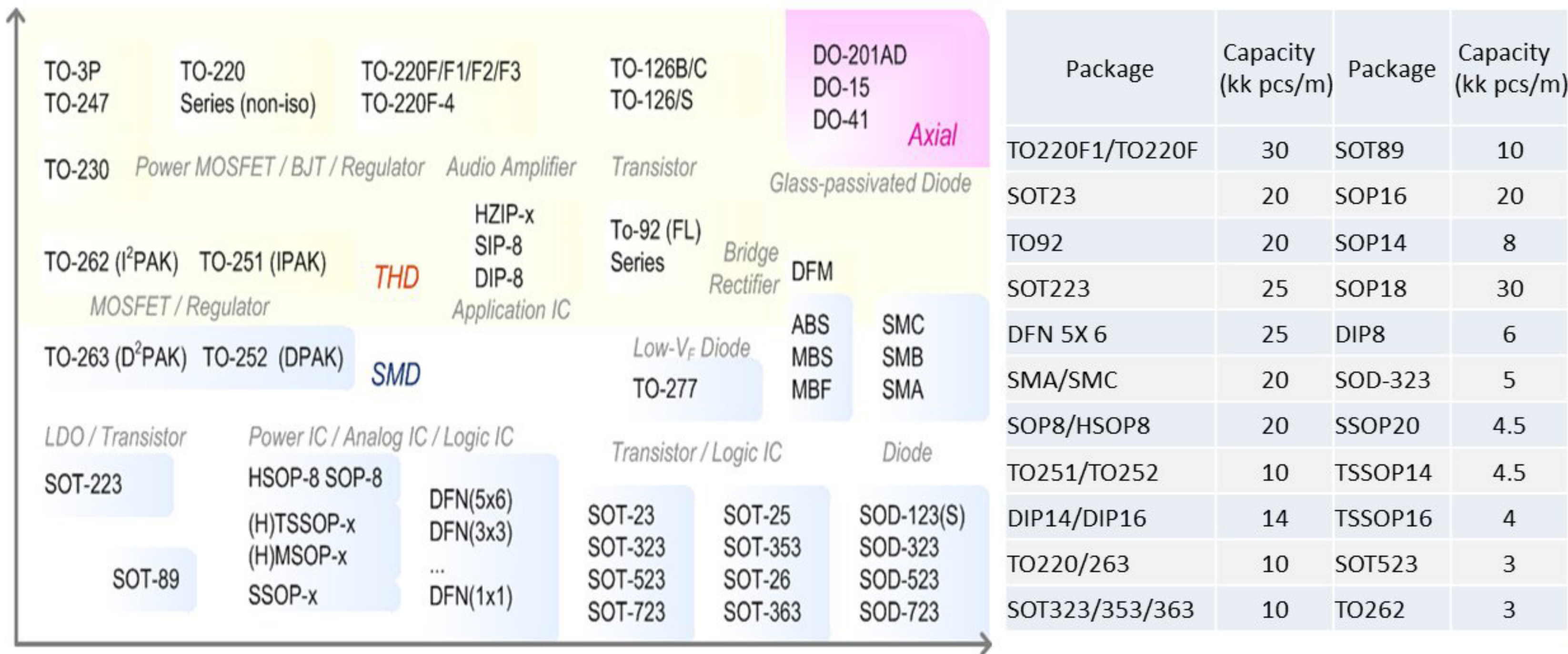
* TVS (Single / Array)

* TRIAC (3Q/ 4Q, ~900V)

* SCR (~800V)

Package Capacity

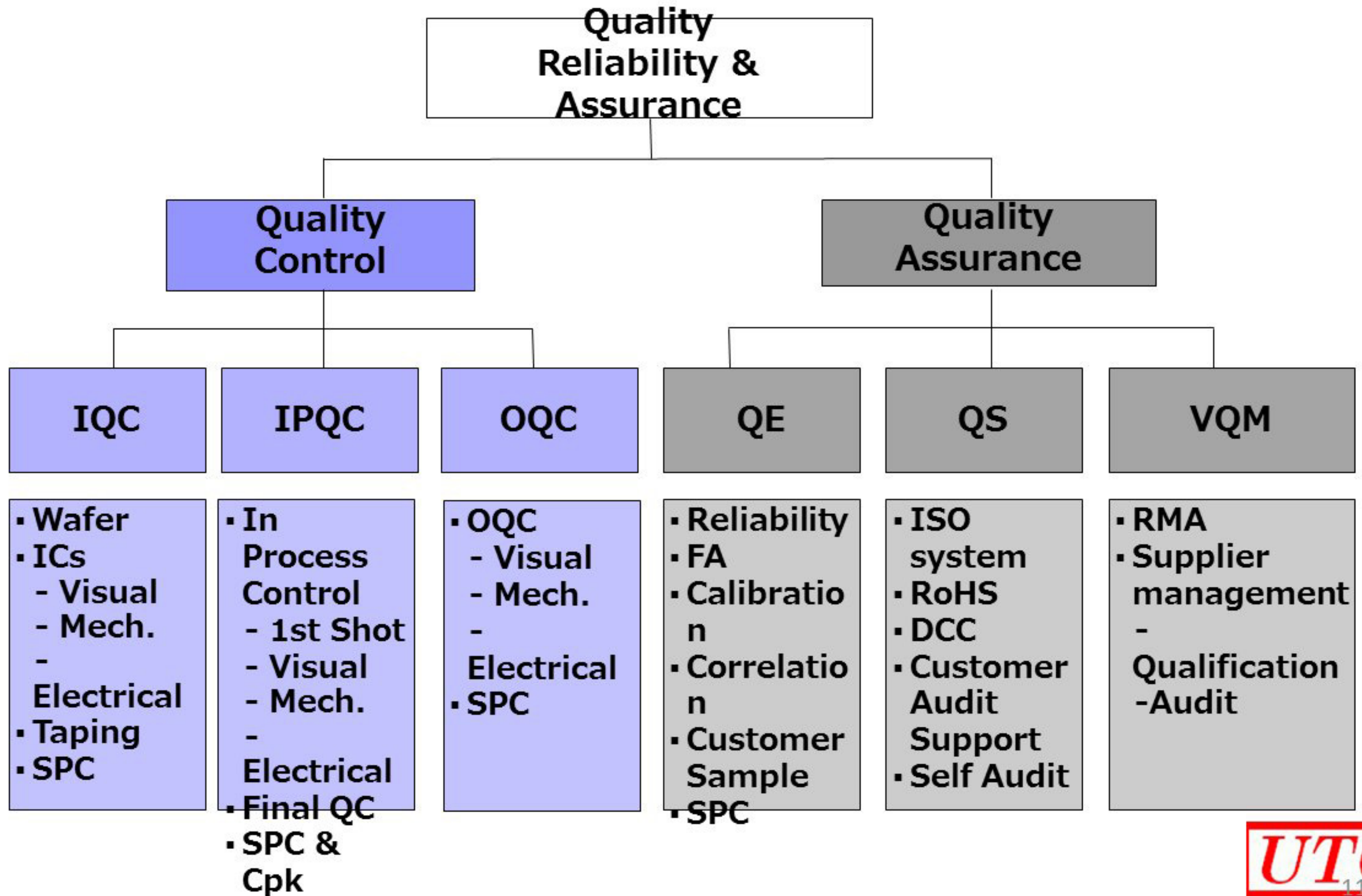
Total packaging capacity: 300 million/month, 3.6 billion/year



Reliability Capability

Test Item	Test Condition	Reference	S.S	Criteria
Pre-Condition	Bake 125°C / 24 hrs Soak 60°C/ 60% RH/ 40 hrs IR Reflow 3 cycles	J-STD-020	180	0-Acc 1 Rej
High Temp Storage Life Test (HSLT)	150°C , 168(500/1000) hrs	JESD22-A103	45	0-Acc 1 Rej
Pressure Cooker Test (PCT)	121°C, RH: 100%, 2 ATM, 96 (168) hrs	JESD22-A102	45	0-Acc 1 Rej
Temperature Cycle Test (TCT)	-65°C ~150°C / 30min, 100(500/1000) cycles	JESD22-A104	45	0-Acc 1 Rej
High Temp High Hum. Storage Test (HTHH)	85°C, 85% RH, 168(500 /1000) hrs	JESD22-A101	45	0-Acc 1 Rej
Soldering Heat Test (SHT)	260±5°C, 10 sec	JESD22-B10	45	0-Acc 1 Rej
Solderability Test (SOT)	245±5°C, 5±0.5 sec	JESD22-B102	10	0-Acc 1 Rej
Electrostatic Discharge Test (ESD)	HBM Mode ≥ 2000 V MM Mode ≥ 200 V	JESD22-A115 JESD22-A114	3	0-Acc 1 Rej
For IC - High Temp Operation Life Test (HTOL)	VCC(Max) x 1.1 Temperature: 85 or 125oC 168 (500/1000) hrs	JESD22-A108	22	0-Acc 1 Rej
For MOSFET / HV BJT - High Temperature Reverse Bias (HTRB)	BV(Max) x 80% Temperature: 125oC 168 (500/1000) hrs	JESD22-A108	45	0-Acc 1 Rej
For TR or MOSFET - High Temp High Hum. Reverse Bias Test (H3TRB)	85oC, 85% RH, BV(Max) x 80% (Max 100V) 168 (500 /1000) hrs	JESD22-A101	45	0-Acc 1 Rej

QRA System



Certifications

ISO 9001

ISO14001

TS16949



Major customers in Taiwan



Major customers in China



Major Customers worldwide



Awards



**Sony PlayStation
2 100Million Units**



**ADDA
Supplier Award**



**ASUS Green
Management**



**MTI Best
Supplier Award**



**LINPO
Long-term Support**



**ADDA
Supplier Award**



Thank you

UNISONIC TECHNOLOGIES CO.,LTD
***Your Best Partner for Total
Solutions!***

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