



COMPANY OVERVIEW

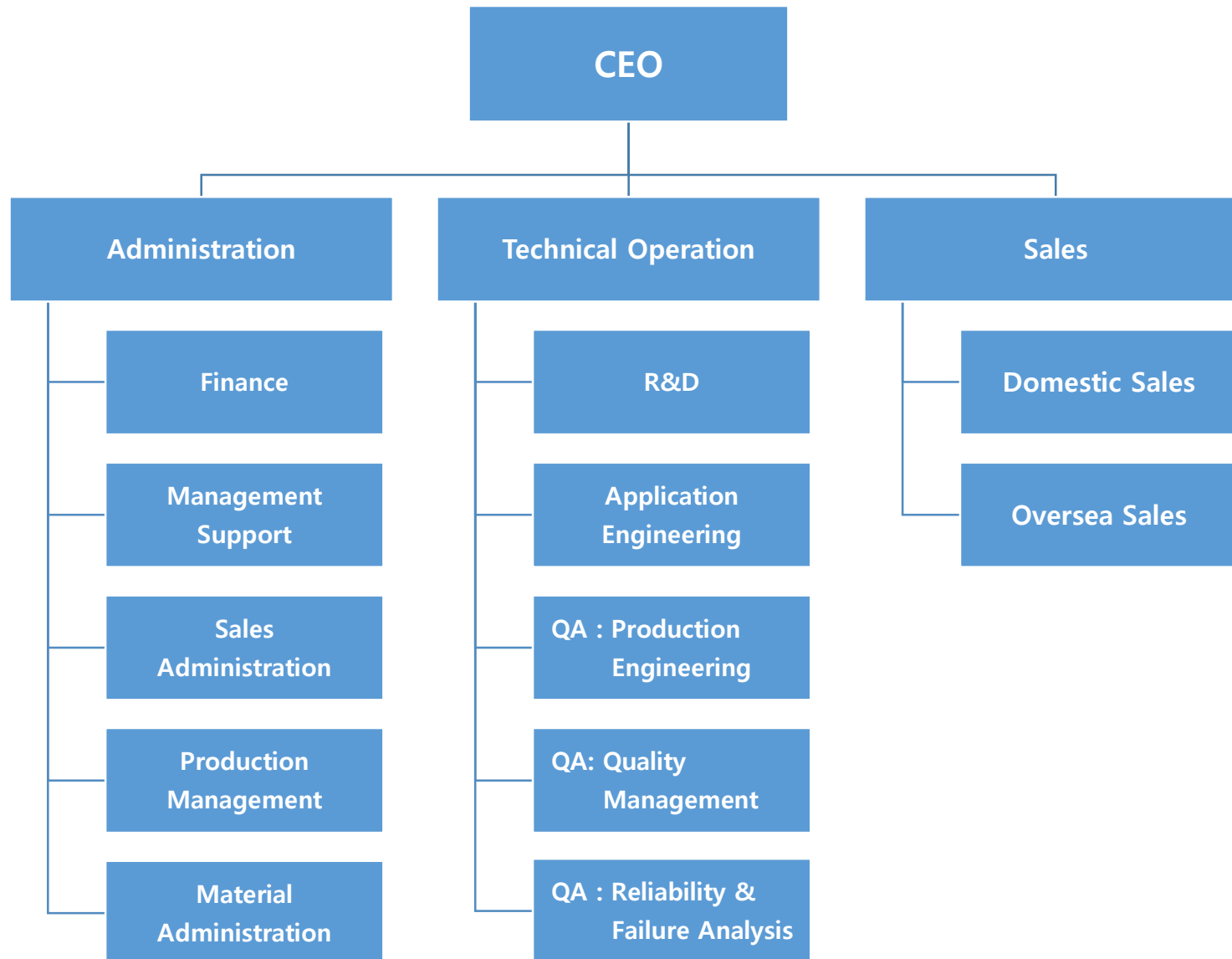
TAEJIN Technology Co., Ltd.
2022. 02.

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ORGANIZATION



MANUFACTURING PARTNERS



Foundry



(Former Dongbu HiTek  Dongbu HiTek)

Assembly



MAJOR CUSTOMERS

KOREA

Consumer / Automotive



Global EMS

FOXCONN[®]

FLEXTRONICS[®]
Where people make the difference

ARTESYN
EMBEDDED TECHNOLOGIES

JAPAN / ASIA

Consumer / Automotive

Panasonic
SHARP

SMPS & Adaptor

nichicon
SanKen

Industrial

Schneider
Electric
JUKI
OKI

CHINA

Consumer



Skyworth 创维



Automotive



HSAE 航盛
Hangsheng Technology GmbH

DESAY 德赛



BRIEF PRODUCT LINE



Linear Power ICs	Voltage References	$V_{IN,MAX}$ Up to 40V	$I_{KA,MIN}$ From 30uA	$V_{REF}=1.24/2.495/2.5V$
	General Regulators	$V_{IN,MAX} = 20V \sim 40V$	$I_{OUT} = 0.1A \sim 0.5A$	$V_{DROP} = 1.7V \sim 3.0V$
	LDO Regulators	$V_{IN,MAX} = 12V \sim 30V$	$I_{OUT} = 0.1A \sim 5.0A$	$V_{DROP} = 0.38V \sim 1.4V$
	VLDO Regulators	$V_{IN,MAX} = 10V \sim 30V$	$I_{OUT} = 0.1A \sim 3.0A$	$V_{DROP} = 0.165V \sim 0.6V$
	CMOS ULDO Regulators	$V_{IN,MAX} = 5.5V \sim 6.5V$	$I_{OUT} = 0.3A \sim 4.0A$	$V_{DROP} = 0.2V \sim 0.6V$
	DDR Terminators	$V_{IN,MAX} = 5.5V$	$I_{OUT} = 2.0A$	DDR II / III / IV
	Power Distribution Switches	$V_{IN,MAX} = 5.5V$	$I_{LIMIT} = \text{Adjustable, up to } 2.25A$	$R_{DS,ON} = 70 \sim 100 \text{ m}\Omega$
Switching Power ICs	Non-Sync. DC-DC Converters	$V_{IN,MAX} = 40V \sim 60V$	$I_{OUT} = 1.0A \sim 5.0V$ $F_{SW} = 52 \sim 300 \text{ kHz}$	$V_{SAT} = 1.05 \sim 1.65 V$
	Sync. DC-DC Converters	$V_{IN,MAX} = 5.5V \sim 23V$	$I_{OUT} = 1.0A \sim 5.0V$ $F_{SW} = 340 \sim 2,000 \text{ kHz}$	$R_{ON,HS} = 100 \sim 130 \text{ m}\Omega$ $R_{ON,LS} = 60 \sim 100 \text{ m}\Omega$
	Converters / Controllers	$V_{IN,MAX} = 10.5V \sim 40V$	$I_{OUT} = 1.2A \sim 1.5A$ (or External Power SW) $F_{SW} = 10 \sim 500 \text{ kHz}$	Various Power Switches
Signal Processing	OPAMPs / Comparators	$V_{IN,MAX} = 18V \sim 45V$	Dual CH. ~ Quad CH.	$V_{Input Offset} = 2mV \sim 7mV$
	Interface ICs	$V_{IN} = 3.3V \sim 5V$	No. of Tx = 1 ~ 2 No. of Rx = 1 ~ 2	ESD = $\pm 2kV \sim \pm 15kV$
	Darlington Transistor Arrays	$V_{CE,MAX} = 50V$	$I_{OUT} = 0.5A, V_{SAT}=1.3V$	7-Digits
	Logic ICs	$V_{CC,MAX} = 6V$	$ I_{OH,MAX} = I_{OL,MAX} =5.2mA$	74HC Series

High Performance Linear Power ICs



Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG
TPS761xx	ADJ/ 2.0~8.5	1.242	2.5	16	0.15	0.165 (@I _{LOAD} =0.15A)	0.120	SOT-23-5L
TPS73001	ADJ	0.6	2.5	6.0	0.3	0.20 (@I _{LOAD} =0.3A)	0.10	SOT-23-6L
TPS730xx	0.8 ~ 3.6	Fixed	2.2	5.5	0.3	0.20 (@I _{LOAD} =0.3A)	0.035	SOT-23-5L
TPS740xx	ADJ/ 1.5 ~ 6.0	1.27	2.5	6.5	0.6	0.6 ~ 1.3 (@I _{LOAD} =0.6A)	0.050	SOT-23-5L
TPS1117LVxx	1.0/ 1.2/ 1.5/ 1.8/ 2.5/ 2.8/ 3.3	Fixed	2.5	5.5	1.0	0.40 (@I _{LOAD} =1.0A)	0.13	SOT-223-3L
TPS7A8001	ADJ	0.6	2.5	5.5	1.0	0.35 (@I _{LOAD} =1.0A)	0.15	DFN3x3-8
TPS7A7001	ADJ	0.6	2.5	5.5	2.0	0.40 (@I _{LOAD} =2.0A)	0.20	SOP-8PP
TPS7A7002	ADJ	0.6	2.5	5.5	3.0	0.40 (@I _{LOAD} =3.0A)	0.20	SOP-8PP
TPS7A4501	ADJ	1.24	2.25	26	1.5	0.35 (@I _{LOAD} =1.5A)	8	TO-263-5L
TPS75701	ADJ	1.25	2.25	16	3.0	0.40 (@I _{LOAD} =3.0A)	10	TO-263-5L
TPS75501	ADJ	1.25	2.25	16	5.0	0.40 (@I _{LOAD} =5.0A)	15	TO-263-5L

Device Name	Channel	Enable Control	V _{IN} [V]	I _{CC} [μA]	I _{CON_MAX} [A]	I _{LIMIT} [A]	R _{DS_ON} [mΩ]	PKG
TPS2553D	Single	High	2.8 ~ 5.5	90	1.5	ADJ (0.2 ~ 2.25)	100	SOT-23-6L

Device Name	Standards	A _{VIN} [V]	P _{VIN} [V]	V _{DDQ} [V]	V _{OUT} [V]	I _{SINK} & I _{SOURCE} [A]	PKG
LP2998	DDR-2/3/3L/4	3.0 ~ 5.5	0 ~ 2.0	1.2 ~ 1.8	VTT/ VREF	2.0 (Cont.) 3.0 (Peak)	SOP-8/ SOP-8PP

Very Low Dropout Regulators



Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{O_TYP} [mA]	PKG	Compatible Parts
TJ75xxA	3.3/ 5.0	Fixed	2.7	30	0.1	0.60 (@I _{LOAD} =50mA)	0.001	SOT-23-5L/ SOT-89-3L	HT75xx
LM2950/1	3.3/ 5.0	Fixed	4.3	30 (Absolute)	0.1	0.38 (@I _{LOAD} =0.1A)	0.075	TO-92/ SOP-8	LP2950, MIC2950, NCV4264
LM2950G	2.5/ 3.3/ 5.0	Fixed	4.3	30	0.1	0.38 (@I _{LOAD} =0.1A)	0.075	TO-92/SC-70-5L	LP2950, MIC2950, NCV4264
TJ5205	ADJ/ 2.0~8.5	1.242	2.5	16	0.15	0.165 (@I _{LOAD} =0.15A)	0.120	SOT-23-5L/ SOP-8/ SOP-8PP	TPS788xx, LP2985A, TPS761xx, LD2981, LD2985, MIC5205, MIC5247, LD2980
LM9076	3.3/ 5.0	Fixed	5.35	40	0.15	0.15 (@I _{LOAD} =0.15A)	0.025	SOP-8/ TO-263-5L	LM9076
TJ62FPxx	2.8/ 3.0/ 3.3	Fixed	2.5	10	0.25	0.40 (@I _{LOAD} =0.16A)	0.001	SOT-23-3L/ SOT-89-3L	XC62FPxx
TJ75xx	3.3/ 5.0	Fixed	2.7	20	0.25	0.40 (@I _{LOAD} =0.16A)	0.001	TO-92/ SOT-89-3L	C78LC5xx, LDK320, MCP1701, MCP1702
LP2954	ADJ/ 5.0	1.23	6.0	30 (Absolute)	0.25	0.47 (@I _{LOAD} =0.25A)	0.090	TO-92/ SOP-8/ TO-263-3L/ TO-220-3L	LP2954, BD3650
LM2940	3.3/ 5.0	Fixed	4.3	30 (Absolute)	1.0	0.40 (@I _{LOAD} =1.0A)	1.0	SOT-223-3L/ TO-220-3L	LM2940, MIC2940, BA0xx
LM2940H	3.3/ 5.0	Fixed	4.3	60 (Absolute)	1.0	0.40 (@I _{LOAD} =1.0A)	1.0	SOT-223/ TO-220	LM2940, MIC2940, BA0xx
LM2941	ADJ	1.24	2.3	30 (Absolute)	1.0	0.40 (@I _{LOAD} =1.0A)	1.0	TO-263-5L	LM2941, MIC2941
LM3710x	ADJ/ 2.5/ 5.0	1.24	2.25	16	1.0	0.47 (@I _{LOAD} =1.0A)	0.70	SOT-223-3L/ SOP-8/ TO-252-5L	LD29080, MIC3910x, MIC3710x, UCC381, UCC281, MC33269
LM37102C	ADJ	1.24	2.5	16	1.0	0.50 (@I _{LOAD} =1.0A)	3.8	SOP-8/ SOP-8PP	MIC37102, MIC39102, TL5209, UCC381, UCC281, MC33269, BA00BC0WFP
LM3910x	ADJ/ 3.3/ 5.0	1.24	2.25	16	1.0	0.41 (@I _{LOAD} =1.0A)	0.70	SOP-8/ SOT-223-3L/ TO-252	LD29080, MIC3910x, MIC3710x, UCC381, UCC281, MC33269, TL5209, TPS73801
LM2915x	ADJ/ 1.8/ 2.5/ 3.3/ 5.0/ 12	1.24	2.25	26	1.5	0.35 (@I _{LOAD} =1.5A)	8	TO-252/ TO-263/ TO-220	LM2940, NCP5915x, NCP565, MIC2915x, BAxxDD0WHFP
LM3930x	ADJ/ 1.8/ 2.5/ 3.3/ 5.0	1.25	2.25	16	3.0	0.40 (@I _{LOAD} =3.0A)	10	TO-263/ TO-220	NCP5930x, NCP5663, MIC3930x,
LM2930x	ADJ/ 1.8/ 2.5/ 3.3/ 5.0/ 12	1.24	2.30	26	3.0	0.37 (@I _{LOAD} =3.0A)	10	TO-263/ TO-220	MIC2930x
LM39502	ADJ	1.25	2.25	16	5.0	0.40 (@I _{LOAD} =5.0A)	15	TO-263/ TO-220	MIC2950x

CMOS ULDO Regulators



Device Name	V _{OUT} [V]	V _{REF} [V]	V _{IN_MIN} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG	Compatible Parts
TJ9198	0.8 ~ 3.6	Fixed	2.2	5.5	0.3	0.20 (@I _{LOAD} =0.3A)	0.035	DFN1x1-4/ SC-70-5L/ SOT-23-3L/ 5L	LP5907, NCP115, LD390xx, MCP1711, MIC5247, BDxxTD3WG
TJ4303	ADJ	0.6	2.5	6.0	0.3	0.20 (@I _{LOAD} =0.3A)	0.10	SOT-23-5L	TPS73201, CAT6220, LDLC015, MIC5318, MIC5319
LM1108	1.5 ~ 5.0	Fixed	2.5	6.5	0.3	0.3 ~ 0.6 (@I _{LOAD} =0.3A)	0.015	SOT-23-3L/ SOT-89-3L	
LM8805	ADJ/ 1.5 ~ 6.0	1.27	2.5	6.5	0.6	0.6 ~ 1.3 (@I _{LOAD} =0.6A)	0.050	SOT-23-5L/ SOT-89-3L	TLV702xx, TLV757xx, CAT6219, MIC5319, BUxxSD5
TJ1119C/F	1.0/ 1.2/ 1.5/ 1.8/ 2.5/ 2.8/ 3.3	Fixed	2.5	5.5	1.0	0.40 (@I _{LOAD} =1.0A)	0.13	SOT-223-3L/ TO-252-3L	TLV1117LV, LM3940, TC2117, MIC37139
TJ1801	ADJ	0.6	1.6	5.5	1.0	0.25 ~ 0.6 (@I _{LOAD} =1.0A)	0.15	SOP-8PP	LDL112
TJ4310	ADJ	0.6	2.5	5.5	1.0	0.35 (@I _{LOAD} =1.0A)	0.15	SOP-8PP/ SOT-89-5L/ DFN2x3-8	TPS78601, AT6243, LDL112, MIC37102
LD39150	ADJ	0.6	2.5	5.5	1.5	0.28 (@I _{LOAD} =1.5A)	0.20	TO-252-5L	LD39150, MIC39150
TJ2132	ADJ	0.6	1.1	3.6	2.0	0.25 (@I _{LOAD} =2.0A)	0.10	SOP-8PP/ DFN3x3-8	LD49150
TJ4320	ADJ	0.6	2.5	5.5	2.0	0.40 (@I _{LOAD} =2.0A)	0.20	SOP-8PP/ TO-252-5L	TPS79601, TPS78630, LP3965, AT6243, LD39150, MIC37139
TJ4330	ADJ / 3.3	0.6	2.5	5.5	3.0	0.40 (@I _{LOAD} =3.0A)	0.20	SOP-8PP/ TO-252-5L	TPS75801, TPS74401, LP38501, NCP4632, LD39300, MIC37302
TJ2134	ADJ	0.8	1.3	3.6	4.0	0.24 (@I _{LOAD} =4.0A)	0.15	SOP-8PP	TPS7A85, LD49300
TJ2134A	ADJ	0.8	1.3	3.6	4.0	0.24 (@I _{LOAD} =4.0A)	0.15	SOP-8PP	TPS7A85, LD49300

High Voltage DC-DC Converters



60V Operative Non-Synchronous DC/DC Converter (Step-Down Switching Regulator)

Device Name	V _{OUT} [V]	V _{FB} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	F _{SW} [KHz]	PKG	Compatible Parts
LM2575HV	ADJ/ 3.3/ 5.0/ 12	1.230	60	1.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2574HV, TL2575HV LM2575HV, L4971, L4976
LM2576HV	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	60	3.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2576HV
LM2596HV	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	60	3.0	150	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2591HV, LM2592HV LM2593HV, L7987, L4973

Non-Synchronous DC/DC Converter (Step-Down Switching Regulator)

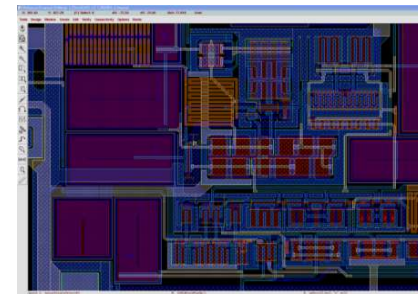
Device Name	V _{OUT} [V]	V _{FB} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	F _{SW} [KHz]	PKG	Compatible Parts
LM2575	ADJ/ 3.3/ 5.0/ 12	1.230	40	1.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2574, TL2575, NCV2575 LM2575, L6902, L5970, MIC4575
LM2576	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	52	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2576, L5972, MIC4684, BD9G401EFJ-M, BD90620EFJ-C
LM2596	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	150	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2596, LM2594, A5975, L5987, L5973, MIC4576, BD9701/2
LM2596G	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	150	TO-263-5L	LM2596, LM2594, A5975, L5987, L5973, MIC4576, BD9701/2
LM4576	ADJ/ 3.3/ 5.0/ 12/ 15	1.230	40	3.0	300	SOP-8PP/ TO-263-5L/ TO-220-5L	LM2596, MIC4576, BD9701/2
LM1501AG	ADJ/ 3.3/ 5.0/ 12	1.230	40	5.0	150	TO-263-5L/ TO-220-5L	LM2596, LM2675, MIC4576 A5975, L5973, L4976, MIC4680
LM1501BG	ADJ/ 3.3/ 5.0/ 12	1.230	40	5.0	300	TO-263-5L/ TO-220-5L	LM2596, LM2675, MIC4576 A5975, L5973, L4976, MIC4680



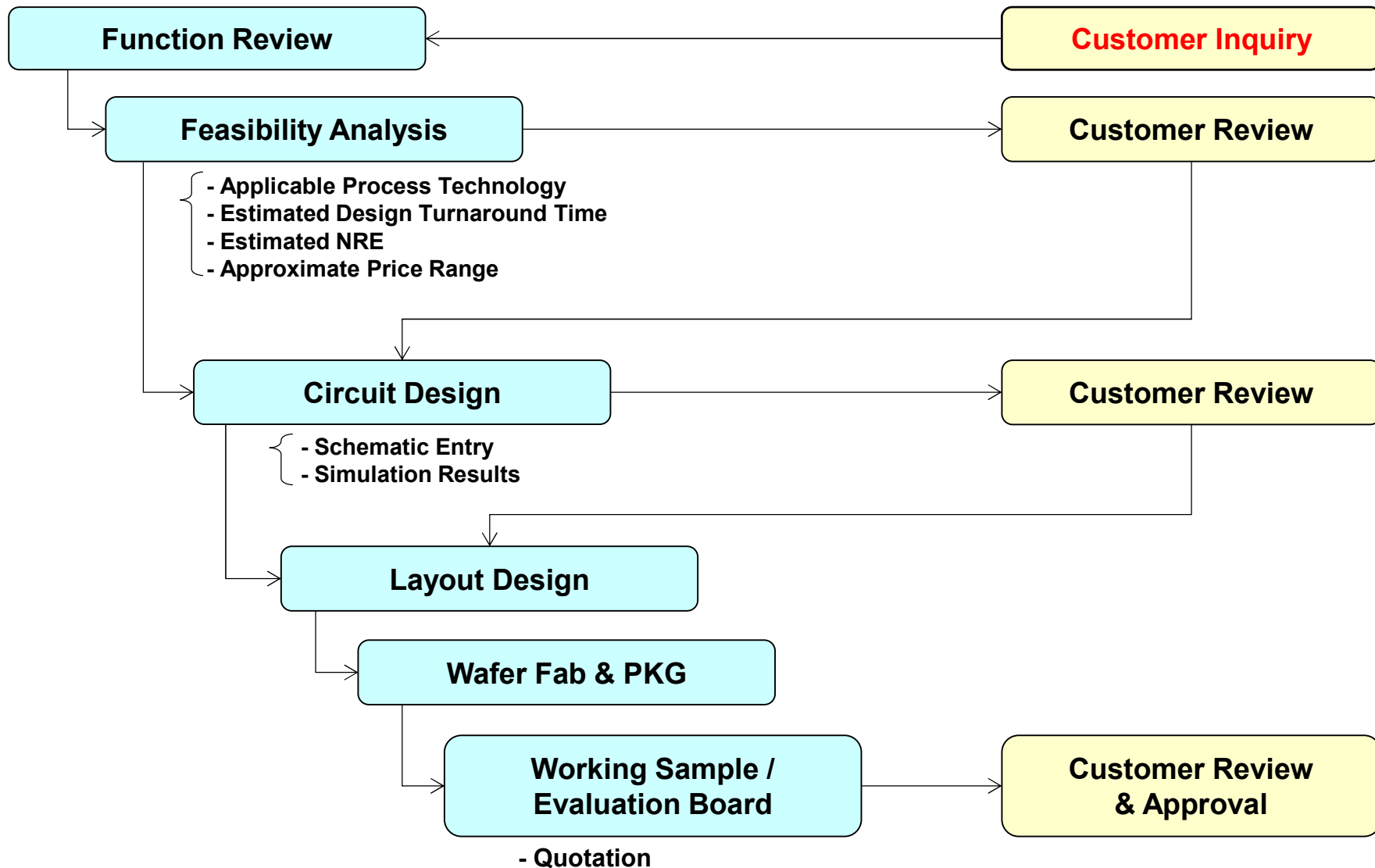
❖ Other Products are described in the Product Catalog

- Voltage References – TL431 & Variants
- General Purpose Linear Regulators & Low Dropout (LDO) Regulators
- Converters & Controllers – MC34063 & Variants
- Interface ICs – RS232 & RS485
- Amplifiers & Comparators
- Darlington Transistor Array
- Logic ICs
- Ground Fault Circuit Interrupter (Under Development)
- Drivers (Under Development)
- TVS

This image displays three different types of integrated circuit (IC) packages. From left to right: a Dual In-Line Package (DIP) with two rows of pins; a Quad Flat Pack (QFP) with pins on all four sides of a square package; and a Ball Grid Array (BGA) with numerous small solder balls on the bottom of a square package.



BRIEF CUSTOM IC DEVELOPMENT FLOW





Silicon-Proven Primitive IPs for Custom IC Development

- * Bandgap References – CMOS BGR/ High PSRR CMOS BGR/ Low Voltage CMOS BGR
- * Low Input Voltage Reference Generator
- * Ramp Generator/ Multiple Ramp Generator with Adjustable Phase Shift
- * Current Limiter – Constant Current Limiter/ Foldback Current Limiter/ Cycle by Cycle Current Limiter
- * Reverse Current Protection for Power Distribution Switches and DC-DC Converters
- * Internal Fixed Soft Start/ Programmable Soft Start with External Components
- * Under Voltage Lock Out with/without Deglitch
- * Over Temperature Protection/ Short Circuit Protection
- * Power Good Monitor with/without Deglitch
- * Adjustable Oscillator/ Clock Generator/ Ramp Generator/ Multi-Ramp Generator with Phase shift
- * Bootstrap using MOS Switch for High Side NMOS Switch for DC-DC Converter
- * Other Primitives as 2-Stage AMPs/Folded Cascode AMPs/High Speed Comparators/ etc.

➔ All IPs for Power ICs are designed, verified and “modularized” for fast design Turnaround.

DESIGN-WINs : VLDO & ULDO Regulators

Field	KOREA	CHINA	TAIWAN	JAPAN
Consumer	- LCD TV (HD, FHD, UHD, 4K) - LED TV - OLED TV - SET TOP BOX (IP, Cable, SAT, etc) - BLU-Lay Player - DVD Player - Sound Bar - Home Theater System - Mobile Phone Wireless Charger - TV SMPS	- LCD TV - SET TOP BOX (IP, Cable, SAT, etc) - DVD Player - Mobile Phone Wireless Charger - TV SMPS - Toy - Audio System - Sound Bar - IOT	- LCD TV - SET TOP BOX - Portable Player - Toy - GPS Tracker - SMPS	- LCD TV - SET TOP BOX - Refrigerator - Audio System - Portable Player - Air Purifier - Air Conditioner
Industrial	- IP Camera - Security System - Projector - LED Display Module	- Security Camera - Projector - SMPS - Control Panel for various equipments. - Network - E-Meter - Motor Control	- Server - Network - Automatic Control Panel	- Projector - FA Equipment - Network - Temperature Controller - Test Equipment - Sewing Machine
Computer/ Peripheral	- Monitor - Notebook Computer - Pocket Photo Printer	- Monitor - Notebook Computer - Router - Tablet	- Monitor - Notebook Computer - Mother-Board - Graphic Card - Router / Network Hub	
Automotive	- Car Stereo - Car Navigation - Display Audio - ADAS - Rear Seat Mini Monitor - Wireless Charger for Car	- Multimedia - Car Infotainment System - Drive Recorder - Car Stereo - GPS - ADAS	- Room Lighting	- Display Audio - Navigation - Car Stereo - Infotainment System

DESIGN-WINs : Non-Sync. DC-DC Converters

Field	KOREA	SHENZHEN HONG KONG	SHANGHAI	BEIJING	TAIWAN	JAPAN
Consumer	- Air Purifier - Water Purifier - Water Dispenser - Dehumidifier - Bidet - LED Lighting - Auto-feeder	- Air Purifier - Water Purifier - Water Dispenser - E-BIKE(E-Scooter) - Smart gas stove - Alarm(Fire Alarm) - Control Panel for Home appliances - Auxiliary battery - Audio System - Door lock - E-Scales	- IOT - Water Purifier - Air conditioner - Lighting - Electric hot pot - Audio system - SMPS - LED lighting - E-Scales - Vending Machine	- RC aircraft - SMPS for Home appliances	- Power Supply - SMPS for Home appliances	- SMPS for Home appliances
Industrial	- POS - ATM - Two way radio - Card reader - Measure Equip. - Telegraphic repeater - Medical Equip. - Welding Machine - Inspection Equip. - Access control machine	- Electronic Scale - Measuring Equip. - POE Router (Power-Over-Ethernet) - Network - Stage Lighting - Elevator - Motor controller - Industry switch - Control Panel for Industrial Machinery - Electric keyboard - Smart interphone	- Control Panel for Industrial Machinery, Elevators, Air conditioners, Medical equip. - Streetlamp controller - Automatic door - HAVC&R System - Machine tools - Load Controller - Tele-matrix - Panel for Mahjong	- Control Panel for Solar cell - Solar power module - Controller Board - E-meter - E-Bike - SMPS - Power Supply	- Controller - Motor Control - Oxygen supplier for medical Equip. - Automatic control	- SMPS - Amusement Acc. (Pachinko) - Semiconductor Manufacturing Equipment
Computer/Peripheral	- SMPS - Printer	- PC Mainboard - USB Peripherals	- Printer - 3d Printer - Scanner		- Server	
Automotive		- Car Charger - Charger for Electric Vehicle - GPS / Block box	- Cluster(Dashboard) - Power Supply - Black box	- Black Box	- Internet Access for Car - Car Charger - LED Lighting	- Camera selector

DESIGN-WINs : Automotive / KOR, JPN

Country	Customer	END Customer	P/N	Application	Production
JPN	Panasonic	Not Releasable	TJ5205DP-ADJ	Not Releasable	2013 MP
					2017 MP
					2018 MP
			TJ2998GDP		2018 MP
			TJ2242AGSF6		2019 MP
KOR	LG		TJ4310GDP-ADJ-Q1		2018 MP
	Daesung Eltec		TJ2242GSF6		2015 MP
			TJ4310GDP-ADJ		2017 MP
			TJ4303GSF5-ADJ		2018 MP

DESIGN-WINs : Automotive / CHN



Country	Customer	END Customer	P/N	Application	Production
CHN	HSAE	Not Releasable	LM29152R	Not Releasable	2011 MP
			LM29152RS		2011 MP
			LM1117S		2011 MP
			LM1117RS		2011 MP
			TJ4320GRS-ADJ		2018 MP
			TJ4303GSF5-ADJ		2019 MP
			TJ4303GSF5-ADJ-Q1		2019 MP
			TJ9198GSF5-3.3D		2019 MP
	GUOMAI	Not Releasable	LM431ASF/CSF		2016 MP
			TJ2242GSF6		2016 MP
			TJ7660D		2016 MP
	DESAY	Not Releasable	TJ2242AGSF6		2019 MP
	BYD	Not Releasable	TJ7533AGF TJ7550AGF		2019 MP

PRODUCTS for LG Electronics



TAEJIN P/N	LG P/N	Remark
TJ5641HGDP-3318	EAN	Custom Development
TJ5641HGDP-3312	EAN	Custom Development
TJ47300GDP-ADJ	EAN	Custom Development
TJ4320GDP-ADJ	EAN	
TJ4310GDP-ADJ-Q1	EAN	
TJ4310GDP-ADJ	EAN	
TJ4230GDP-ADJ	EAN	
TJ4222GDP-ADJ	EAN	Custom Development
TJ4220GDP-ADJ	EAN	
TJ3966DP-ADJ	EAN	Custom Development
TJ3965S-3.3V-3L	EAN	
TJ3965D-ADJ	EAN	Custom Development
TJ3964S-2.5	EAN	
TJ3940S-2.5V-3L	EAN	
TJ2995D	EAN	Custom Development
TJ2242GSF6	EAN	
TJ2132GQ	EAN	Custom Development
TJ2132GDP	EAN	Custom Development

Not
Releasable

TAEJIN P/N	LG P/N	Remark
TJ1118S-2.5	EAN	
TJ1117GS-ADJ	EAN	
LM79L05F	EAN	
LM39102D-ADJ	EAN	
LM37102D	EAN	
LM37102CGD	EAN	
LM29152RS-ADJ	EAN	
LM29150RS-5.0	EAN	
LM27152RS	EAN	
LM1117S-ADJ	EAN	
LM1117S-5.0	OIP	
LM1117S-1.2V	EAN	
LM1117RS-ADJ	EAN	
LM1117RS-3.3	OIP	
LM1117RS-1.8	EAN	
LM1117RS-1.5	EAN	
LM1117RS-1.2V	EAN	

Not
Releasable

PRODUCTS for PANASONIC



TAEJIN P/N	Panasonic P/N	Remark
LM1117F-ADJ	C0D	Not Releasable
LM2596HVGT-ADJ	C0D	
LM29152RS	C0D	
LM317LD	C0D	
LM37102D	C0D	
TJ2242AGSF6	C0D	
TJ2242GSF6	C0D	
TJ2998GDP	C0D	
TJ5205DP-ADJ	C0D	Custom Development
TJ6723DP-ADJ	C0D	Custom Development

TAEJIN P/N	Panasonic P/N	Remark
TJ6813GDP	C0D	Custom Development
TJ6823GDP	C0D	Custom Development
TL431ASF	C0D	Not Releasable
TL431ATA	C0D	
TL431CSF	C0D	
TL431CTA	C0D	
TL432ASF	C0D	
TL432ATA	C0D	
TL432CSF	C0D	
TL432CTA	C0D	

PRODUCTS for SHARP



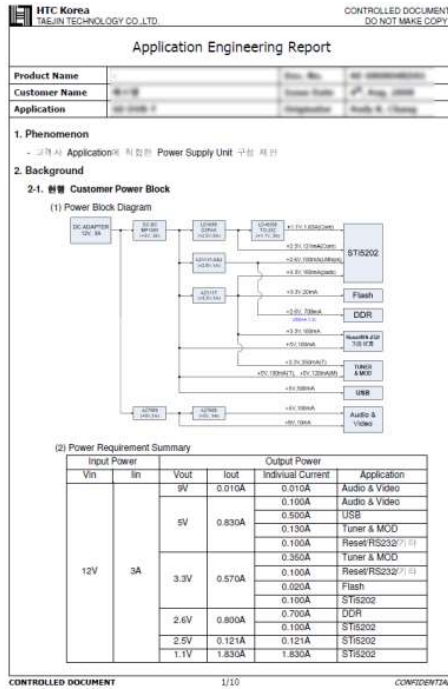
TAEJIN P/N	SHARP P/N	Remark
LM78L05ATA	VHII	
LM78L05F	VHII	
TL431ASF	VHIT	
TL431CSF	VHIT	
TL431ATA	VHIT	
TL431CTA	VHIT	
TL432CSF	VHIT	
LM1117S-3.3	VHII	
LM2950TA-5.0	VHLL	

Not
Releasable

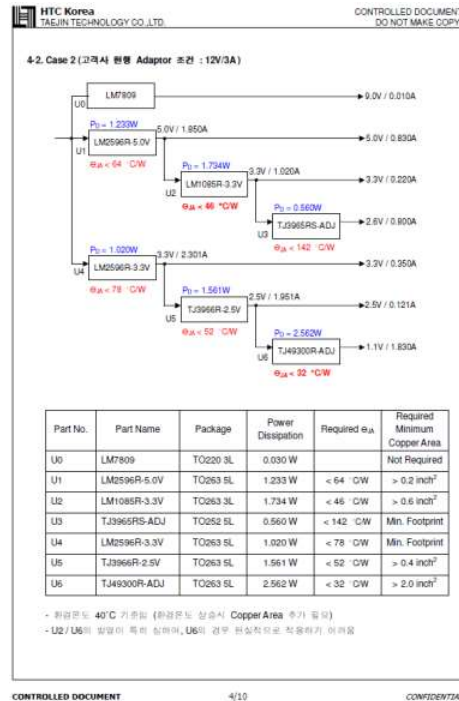
TAEJIN P/N	SHARP P/N	Remark
TJ7533AGSF5	VHIT	
TJ1119CGS-3.3	VHIT	
TJ4303GSF5-ADJ	VHIT	
TJ5205SF5-3.3	VHIT	
LM29150T-12	VHII	
LM29150RS-3.3	VHII	
LM39100RS-3.3	VHII	
LM2576T-5.0	RH-	
LM2596R-ADJ	VHII	

Not
Releasable

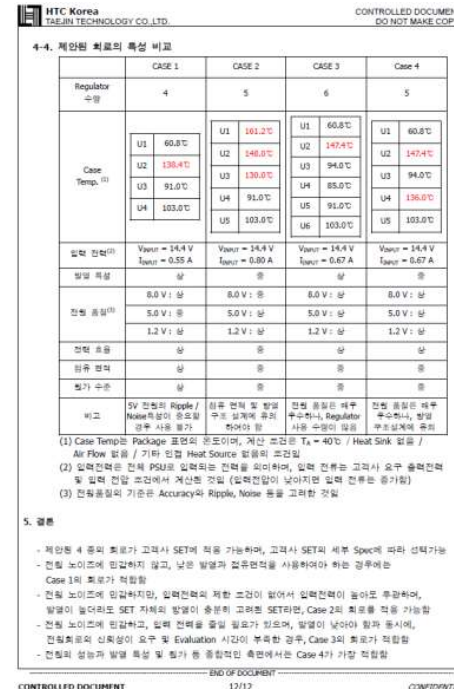
APPLICATION SUPPORT



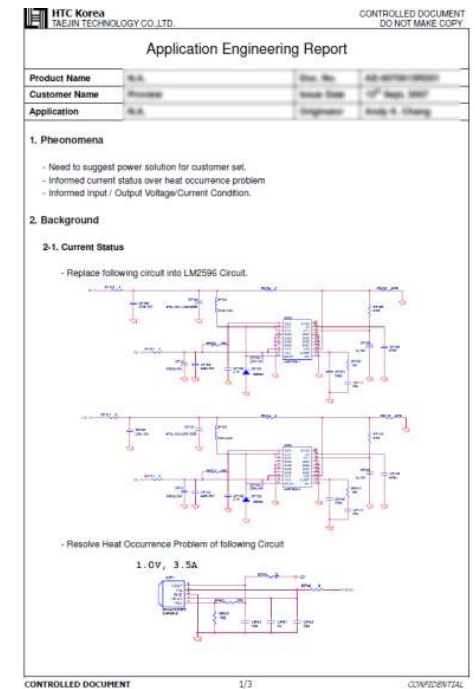
Power Analysis



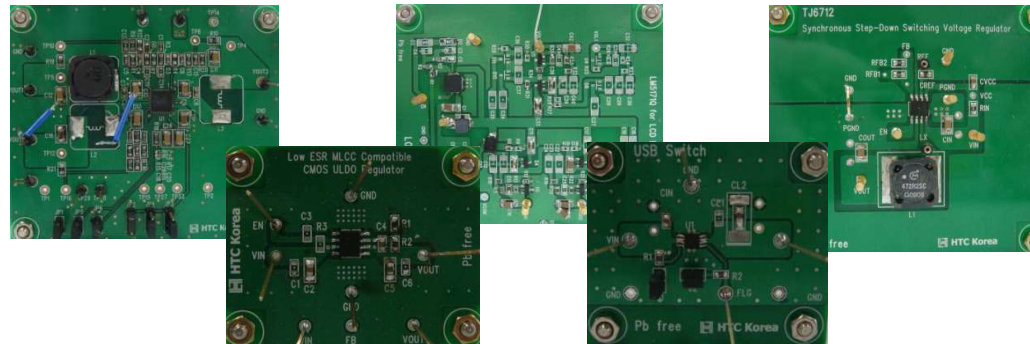
Power Tree Proposal



Cost-Quality Effective Solution Proposal

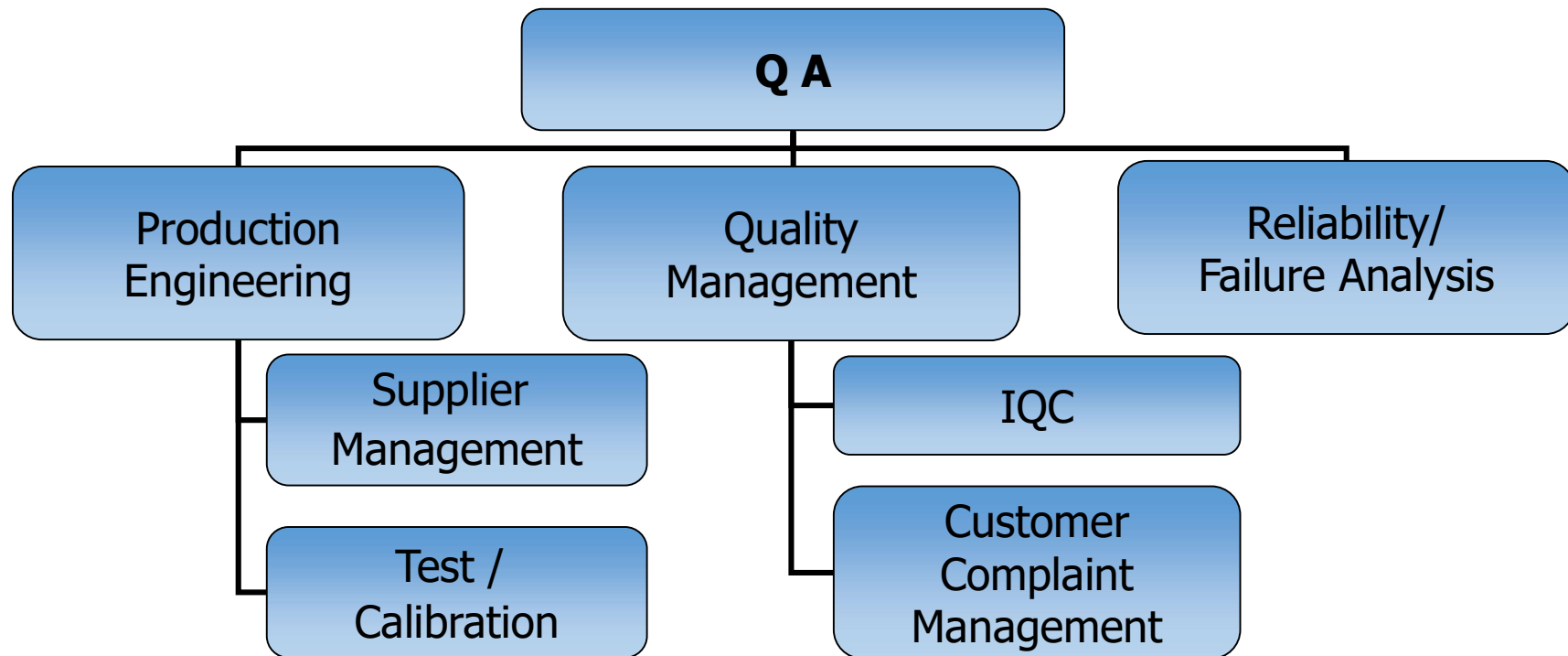


System Test & Analysis



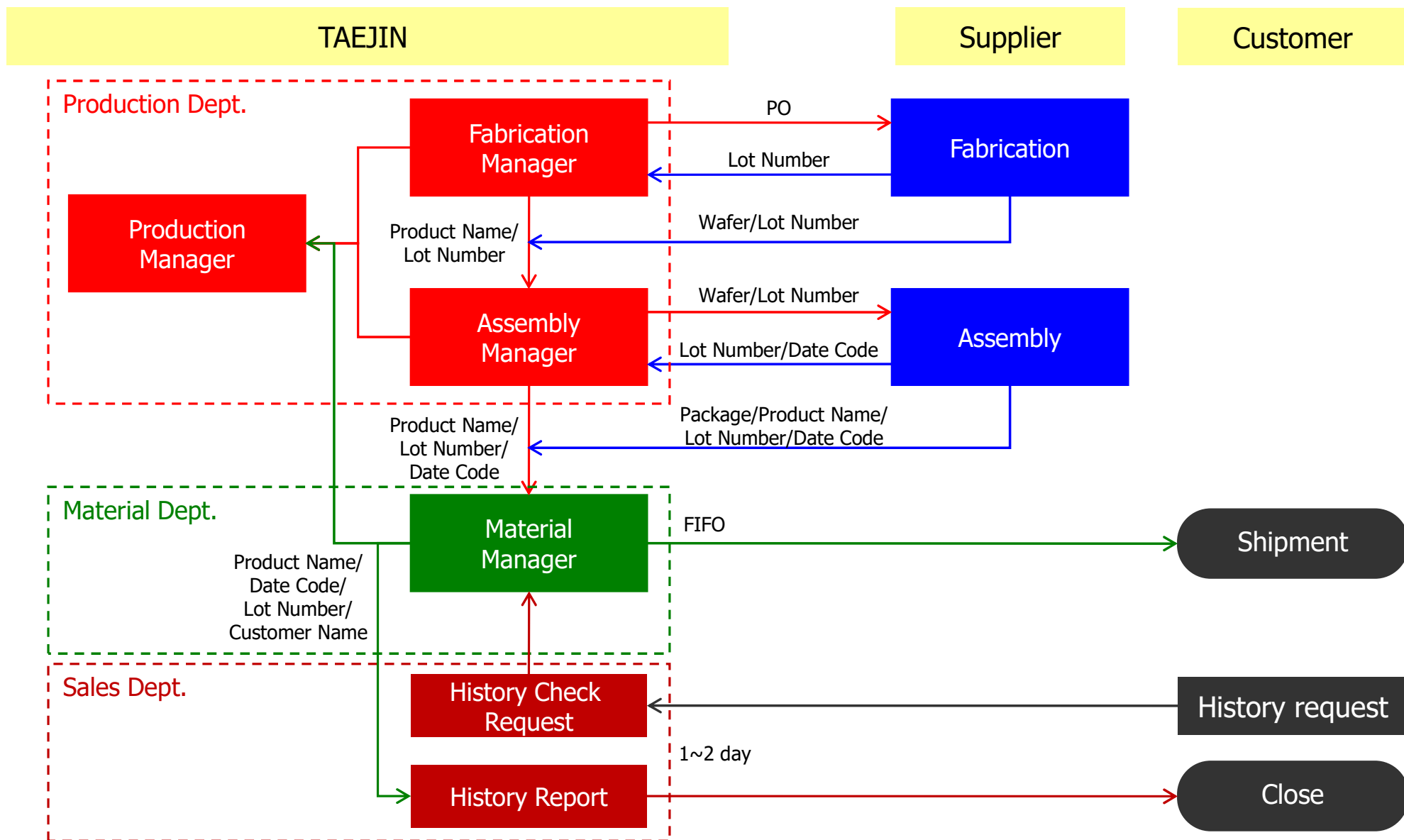
Support Evaluation Boards

Quality Assurance Department & Duties

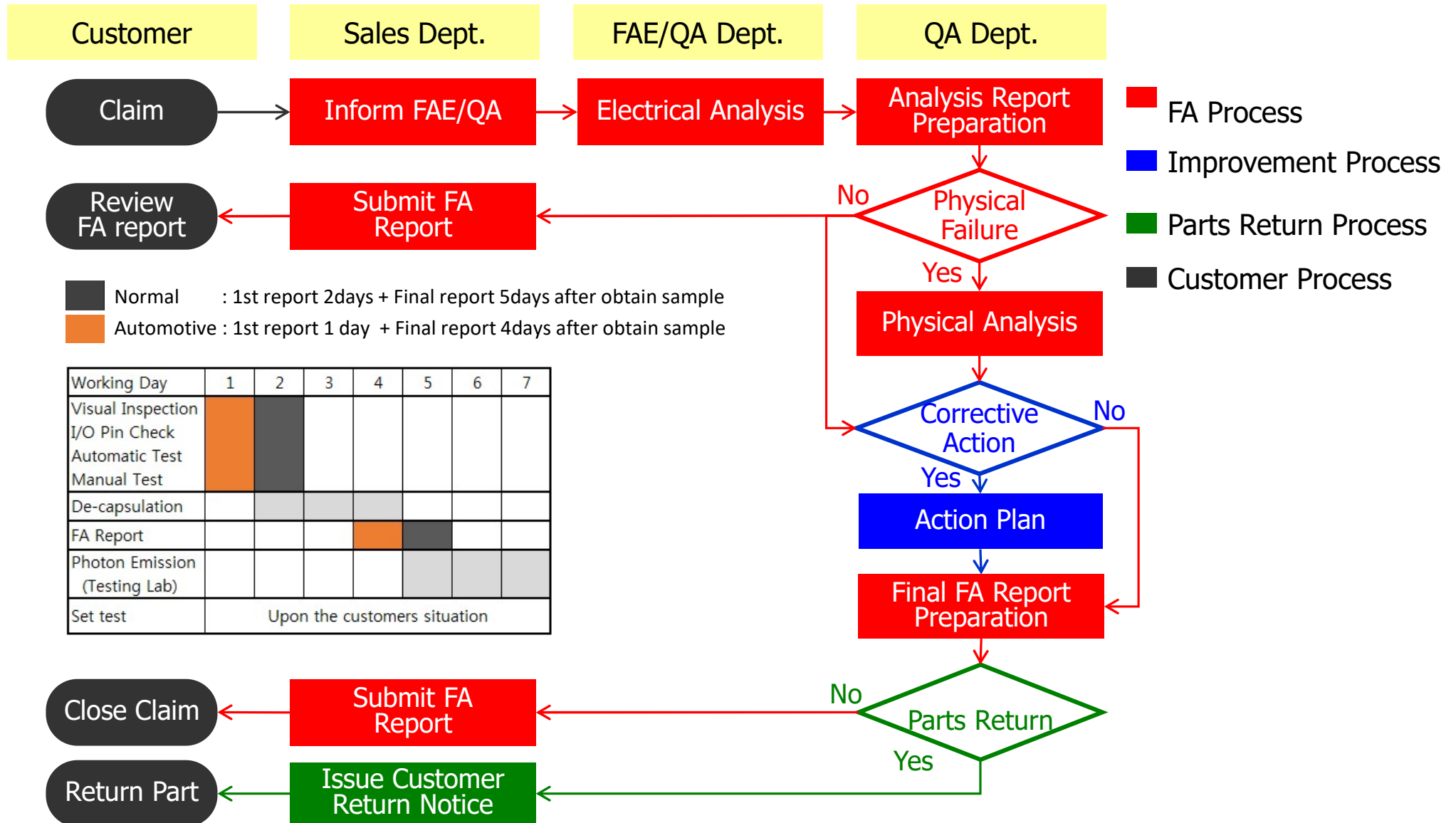


- Duties
 - Overall management of production processes
 - Issue factory standard, engineering specifications and setup test system
 - External and Internal audit over production processes
 - Issue technical datasheet
 - Quality Control
 - Quality Assurance Test
 - Documentation and Data Record Keeping

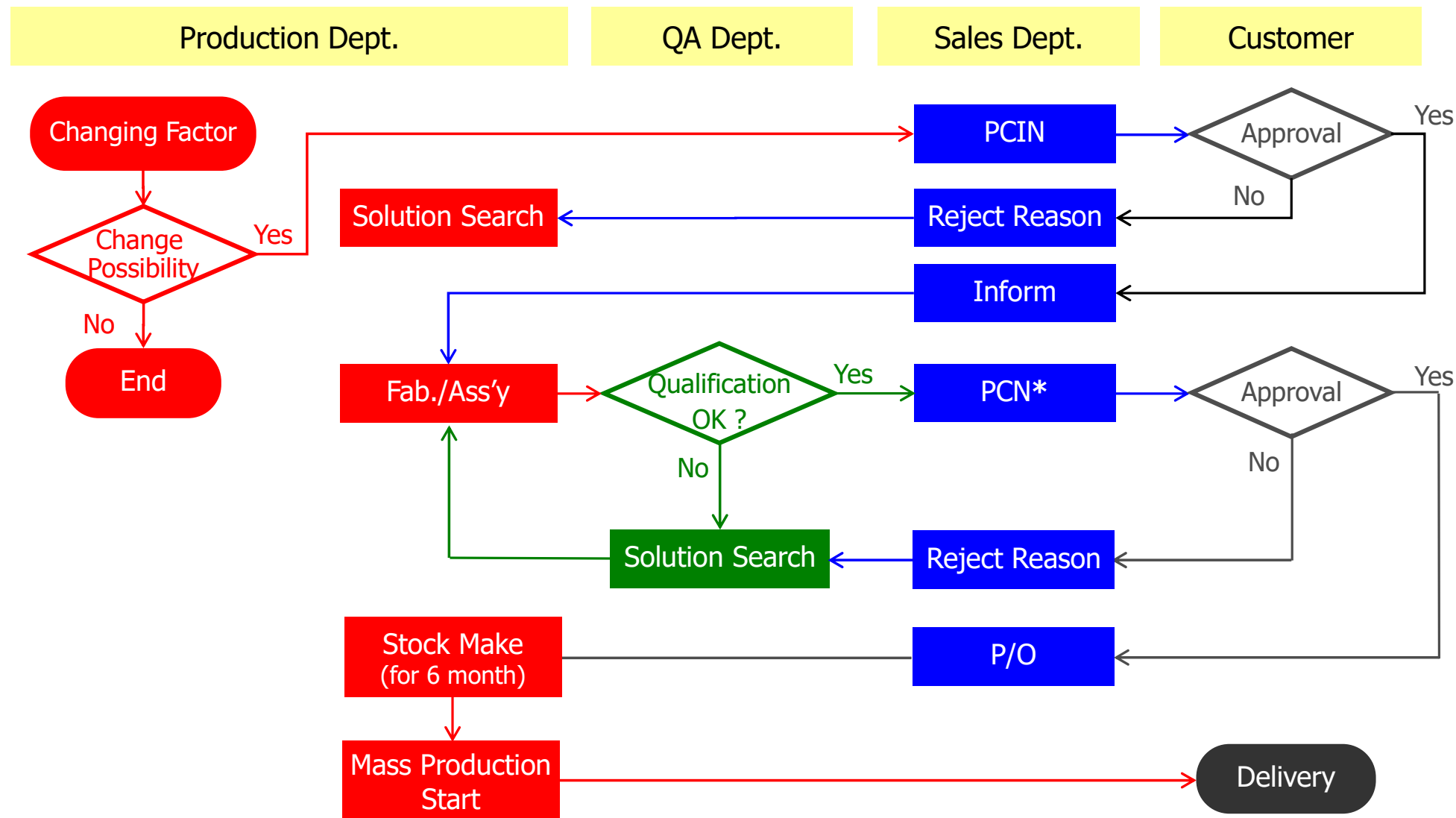
Traceability Management Flow



Customer Complaint Handling Flow



Product Change Management Flow



* Remark : Inform to customers before 6 months about the Change.

AEC-Q100 Qualification



AEC-Q100	AEC-Q101	AEC-Q200
Qualification for Integrated Circuits (ICs)	Qualification for Discrete Semiconductors (Transistor/Diode, etc)	Qualifications for Passive Components (Resistor/Capacitor, etc)

AEC-Q100 is the reliability evaluation standard for integrated circuits (ICs). The standard specifies 4 grades according to available temperature range. The standard is suitable for evaluating automotive semiconductors that require high reliability.

Grade Level	Ambient Operating Temp. Range
Grade 0	-40°C to +150°C
Grade 1	-40°C to +125°C
Grade 2	-40°C to +105°C
Grade 3	-40°C to +85°C

AEC-Q100 QUALIFIED PRODUCTS



LDO	Device Name	CH.	V _{OUT} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	V _{DROP_TYP} [V]	I _{Q_TYP} [mA]	PKG	Functions	AEC-Q100
	TJ4303GSF5-xx-Q1	Single	ADJ	6	0.3	0.20	0.10	SOT-23-5L	EN	Qualified
	TJ4310GDP-xx-Q1	Single	ADJ	6	1.0	0.35	0.15	SOP-8PP	EN/ SS/ PG	Qualified
	TJ4310GQ-xx-Q1	Single	ADJ	6	1.0	0.35	0.15	DFN2x3-8	EN/ SS/ PG	Qualified
	TJ5641GDP-xxxx-Q1	DUAL	1.0~3.3	6	0.6	0.24	0.14	SOP-8PP	EN	Qualified
	TJ5205DP-xx-Q1	Single	ADJ/2.0~8.5	16	0.15	0.165	0.12	SOP8PP	EN/Bypass	Qualified
	TJ5205SF5-xx-Q1	Single	ADJ/2.0~8.5	16	0.15	0.165	0.12	SOT23-5	EN/Bypass	Qualified
	TJ4320GQ-xx-Q1	Single	ADJ	6	2.0	0.40	0.20	DFN2x3-8	EN/ SS/ PG	Qualified

DDR	Device Name	Standards	A _{VIN} [V]	P _{VIN} [V]	V _{DDQ} [V]	V _{OUT} [V]	I _{SINK} & I _{SOURCE} [A]	PKG	AEC-Q100
	TJ2998GDP-Q1	II/III/IIIL/IV	3.0 ~ 5.5	0 ~ 2.0	1.2 ~ 1.8	VTT / VREF	2.0(Cont.) / 3.0(Peak)	SOP-8PP	Qualified

DC-DC	Device Name	V _{OUT} [V]		V _{FB} [V]	V _{IN_MAX} [V]	I _{OUT_MAX} [A]	F _{SW} [KHz]	PKG	AEC-Q100
	LM2576DP-xx-Q1	ADJ / 3.3 / 5.0 / 12 / 15		1.230	40	3.0	52	SOP-8PP	Qualified
	LM2576HVDP-xx-Q1	ADJ / 3.3 / 5.0 / 12 / 15		1.230	60	3.0	52	SOP-8PP	Qualified
	Device Name	Supply Voltage V _{CC} [V]	Switch Current I _{SW} [A]	Ref. Accuracy [%]	Supply Current I _{CC_MAX} [mA]	Comparator Input Voltage Range V _{IR} [V]	PKG	AEC-Q100	
	MC34063AD-Q3	40	1.5	2	4.0	-0.3 ~ 40 (Absolute)	SOP8	Qualified	

A decorative banner at the top of the slide featuring a blue background with a stylized white pen on the left and a cluster of yellow and orange spheres on the right. In the center of the banner, there are three small, overlapping rectangular frames containing abstract, colorful patterns.

THANK YOU.