

Process Change Notification

This is to inform you that a design and/or process change will be implemented to the affected product(s) and this notification is for your information and concurrence. This change is planned to take effect in 90 calendar days from the date of this notification.

Please work with your local Taiwan Semiconductor Sales Representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days.

Please contact your local Taiwan Semiconductor Field Quality Service or Customer Quality Engineer within 45 days of receipt of this notification if you require any additional data or samples.

PCN No: PCN26008 rev0

Title: Additional wafer diameter and TSC D/S revision

Issue Date: 2026/7/31

If you have any questions concerning this change, please contact:

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PCN Type:

Additional wafer diameter and TSC D/S revision

Effectivity:

Expected 1st device shipment date: 2026/10/29 or earlier if approved by customer

Product Category (Description):

Wafer size/datasheet changes for various devices in Schottky, Zener and Transistor.

Description of Change:

Taiwan Semiconductor Company needed to qualify additional wafer diameter of wafer source X for parts supplied by vendor (4793) to ensure the robustness of delivery. These changes will not affect product performance, continuous delivery requirement and will support TSC business contingency and continuity strategy.

Additionally, corresponding product datasheets are revised to remove non-HF packing code and factory code. And POD drawing is updated to align with industry standard. There will be no changes on the product BOM except for the wafer diameter.

1. Bill of Material

Item	Before	After	Remarks
Wafer diameter	5"	5" & 6"	Additional

2. Product Datasheet

Item	From	To
Part number	Part number with non-HF packing code and factory code	Part number with HF packing code
POD drawing	Old POD drawing	New drawing to align with industry standard. No change on product itself.
package figure, pin configuration, circuit diagram	Original standard format	New standard format

Remark:

Detailed information in the comparison report will be provided upon customer request.

Qualification and Reliability Result:

Reliability Report No: QRO250923001
Product Technology: Schottky
Packages: SOT-23, SOD-123, SOD-523F

ABRV	Test	Test Conditions/ Standard	No. of Lots	Sample Size	Result
HTRB	High Temperature Reverse Bias	MIL-STD-750-1, 125°C; V=80% rated VR, 1000hrs	3	0/77	PASS
PV	Parametric Verification	per product datasheet	3	0/10	PASS

Reliability Report No: QRO250925001
Product Technology: Zener
Packages: SOD123

ABRV	Test	Test Conditions/ Standard	No. of Lots	Sample Size	Result
SSOP	Steady State Operational	MIL-STD-750-1, 150°C; V=100% rated IZ	3	0/77	PASS
PV	Parametric Verification	per product datasheet	3	0/10	PASS

Reliability Report No: QRO250925002
Product Technology: Transistor
Packages: SOT-23, SOT-323, SOT-523

ABRV	Test	Test Conditions/ Standard	No. of Lots	Sample Size	Result
HTRB	High Temperature Reverse Bias	MIL-STD-750-1, 125°C; V=80% rated VR, 1000hrs	4	0/77	PASS
PV	Parametric Verification	per product datasheet	4	0/10	PASS

Conclusion:

The change device successfully passed consumer product reliability requirement.

Identification and Traceability:

Item	Identification
Traceability	Product Date Code

Effect of Change:

There is no impact in product functionality, quality and reliability.

List of Affected Devices:

Family	Package	TSC P/N	New TSC P/N
Schottky Barrier Diode	SOD-123	BAT42W RHG	No change
Schottky Barrier Diode	SOD-123	BAT43W RHG	No change
Schottky Barrier Diode	SOD-123	BAT46GW RHG	No change
Schottky Barrier Diode	SOD-123	BAT54GW RHG	No change
Schottky Barrier Diode	SOD-123	SD103AW RHG	No change
Schottky Barrier Diode	SOD-123	SD103BW RHG	No change
Schottky Barrier Diode	SOD-123	SD103CW RHG	No change
Schottky Barrier Diode	SOD-323F	BAT42WS R9	BAT42WS R9G
Schottky Barrier Diode	SOD-323F	BAT42WS R9G	No change
Schottky Barrier Diode	SOD-323F	BAT42WS RR	BAT42WS RRG
Schottky Barrier Diode	SOD-323F	BAT42WS RRG	No change
Schottky Barrier Diode	SOD-323F	BAT43WS R9	BAT43WS R9G
Schottky Barrier Diode	SOD-323F	BAT43WS R9G	No change
Schottky Barrier Diode	SOD-323F	BAT43WS RR	BAT43WS RRG
Schottky Barrier Diode	SOD-323F	BAT43WS RRG	No change
Schottky Barrier Diode	SOD-323F	SD103AM3 RRG	No change
Schottky Barrier Diode	SOD-323F	SD103BM3 RRG	No change
Schottky Barrier Diode	SOD-323F	SD103CM3 RRG	No change
Schottky Barrier Diode	SOD-523F	BAS40M5 RSG	No change
Schottky Barrier Diode	SOD-523F	RB520S-30 RK	RB520S-30 RKG
Schottky Barrier Diode	SOD-523F	RB520S-30 RKG	No change
Schottky Barrier Diode	SOD-523F	RB520S-30 RS	RB520S-30 RSG
Schottky Barrier Diode	SOD-523F	RB520S-30 RSG	No change
Schottky Barrier Diode	SOD-523F	RB520SM5-40 RSG	No change
Schottky Barrier Diode	SOD-523F	SD103AXM5 RSG	No change
Schottky Barrier Diode	SOT-23	BAS40 RF	BAS40 RFG
Schottky Barrier Diode	SOT-23	BAS40 RFG	No change
Schottky Barrier Diode	SOT-23	BAS40-04 RF	BAS40-04 RFG
Schottky Barrier Diode	SOT-23	BAS40-04 RFG	No change
Schottky Barrier Diode	SOT-23	BAS40-05 RF	BAS40-05 RFG
Schottky Barrier Diode	SOT-23	BAS40-05 RFG	No change
Schottky Barrier Diode	SOT-23	BAS40-06 RF	BAS40-06 RFG
Schottky Barrier Diode	SOT-23	BAS40-06 RFG	No change
Schottky Barrier Diode	SOT-23	BAS70 RF	BAS70 RFG
Schottky Barrier Diode	SOT-23	BAS70 RFG	No change
Schottky Barrier Diode	SOT-23	BAS70-04 RF	BAS70-04 RFG
Schottky Barrier Diode	SOT-23	BAS70-04 RFG	No change
Schottky Barrier Diode	SOT-23	BAS70-04-B0 RF	BAS70-04 RFG
Schottky Barrier Diode	SOT-23	BAS70-04-B0 RFG	BAS70-04 RFG
Schottky Barrier Diode	SOT-23	BAS70-04-D0 RF	BAS70-04 RFG

Family	Package	TSC P/N	New TSC P/N
Schottky Barrier Diode	SOT-23	BAS70-04-D0 RFG	BAS70-04 RFG
Schottky Barrier Diode	SOT-23	BAS70-05 RF	BAS70-05 RFG
Schottky Barrier Diode	SOT-23	BAS70-05 RFG	No change
Schottky Barrier Diode	SOT-23	BAS70-05-B0 RF	BAS70-05 RFG
Schottky Barrier Diode	SOT-23	BAS70-05-B0 RFG	BAS70-05 RFG
Schottky Barrier Diode	SOT-23	BAS70-05-D0 RF	BAS70-05 RFG
Schottky Barrier Diode	SOT-23	BAS70-05-D0 RFG	BAS70-05 RFG
Schottky Barrier Diode	SOT-23	BAS70-06 RF	BAS70-06 RFG
Schottky Barrier Diode	SOT-23	BAS70-06 RFG	No change
Schottky Barrier Diode	SOT-23	BAS70-06-B0 RF	BAS70-06 RFG
Schottky Barrier Diode	SOT-23	BAS70-06-B0 RFG	BAS70-06 RFG
Schottky Barrier Diode	SOT-23	BAS70-06-D0 RF	BAS70-06 RFG
Schottky Barrier Diode	SOT-23	BAS70-06-D0 RFG	BAS70-06 RFG
Schottky Barrier Diode	SOT-23	BAS70-B0 RF	BAS70 RFG
Schottky Barrier Diode	SOT-23	BAS70-B0 RFG	BAS70 RFG
Schottky Barrier Diode	SOT-23	BAS70-D0 RF	BAS70 RFG
Schottky Barrier Diode	SOT-23	BAS70-D0 RFG	BAS70 RFG
Schottky Barrier Diode	SOT-23	BAT54 RF	BAT54 RFG
Schottky Barrier Diode	SOT-23	BAT54 RFG	No change
Schottky Barrier Diode	SOT-23	BAT54A RF	BAT54A RFG
Schottky Barrier Diode	SOT-23	BAT54A RFG	No change
Schottky Barrier Diode	SOT-23	BAT54C RF	BAT54C RFG
Schottky Barrier Diode	SOT-23	BAT54C RFG	No change
Schottky Barrier Diode	SOT-23	BAT54S RF	BAT54S RFG
Schottky Barrier Diode	SOT-23	BAT54S RFG	No change
Transistor	SOT-23	BC807-16 RF	BC807-16 RFG
Transistor	SOT-23	BC807-16 RFG	No change
Transistor	SOT-23	BC807-25 RF	BC807-25 RFG
Transistor	SOT-23	BC807-25 RFG	No change
Transistor	SOT-23	BC807-40 RF	BC807-40 RFG
Transistor	SOT-23	BC807-40 RFG	No change
Transistor	SOT-23	BC817-16 RF	BC817-16 RFG
Transistor	SOT-23	BC817-16 RFG	No change
Transistor	SOT-23	BC817-25 RF	BC817-25 RFG
Transistor	SOT-23	BC817-25 RFG	No change
Transistor	SOT-23	BC817-40 RF	BC817-40 RFG
Transistor	SOT-23	BC817-40 RFG	No change
Transistor	SOT-23	BC846A R5	BC846A R5G
Transistor	SOT-23	BC846A R5G	No change
Transistor	SOT-23	BC846A RF	BC846A RFG
Transistor	SOT-23	BC846A RFG	No change
Transistor	SOT-23	BC846B R5	BC846B R5G
Transistor	SOT-23	BC846B R5G	No change
Transistor	SOT-23	BC846B RF	BC846B RFG
Transistor	SOT-23	BC846B RFG	No change
Transistor	SOT-23	BC847A R5	BC847A R5G
Transistor	SOT-23	BC847A R5G	No change
Transistor	SOT-23	BC847A RF	BC847A RFG
Transistor	SOT-23	BC847A RFG	No change
Transistor	SOT-23	BC847B R5	BC847B R5G
Transistor	SOT-23	BC847B R5G	No change
Transistor	SOT-23	BC847B RF	BC847B RFG
Transistor	SOT-23	BC847B RFG	No change

Family	Package	TSC P/N	New TSC P/N
Transistor	SOT-23	BC847C R5	BC847C R5G
Transistor	SOT-23	BC847C R5G	No change
Transistor	SOT-23	BC847C RF	BC847C RFG
Transistor	SOT-23	BC847C RFG	No change
Transistor	SOT-23	BC848A R5	BC848A R5G
Transistor	SOT-23	BC848A R5G	No change
Transistor	SOT-23	BC848A RF	BC848A RFG
Transistor	SOT-23	BC848A RFG	No change
Transistor	SOT-23	BC848B R5	BC848B R5G
Transistor	SOT-23	BC848B R5G	No change
Transistor	SOT-23	BC848B RF	BC848B RFG
Transistor	SOT-23	BC848B RFG	No change
Transistor	SOT-23	BC848C R5	BC848C R5G
Transistor	SOT-23	BC848C R5G	No change
Transistor	SOT-23	BC848C RF	BC848C RFG
Transistor	SOT-23	BC848C RFG	No change
Transistor	SOT-23	BC856A R5	BC856A R5G
Transistor	SOT-23	BC856A R5G	No change
Transistor	SOT-23	BC856A RF	BC856A RFG
Transistor	SOT-23	BC856A RFG	No change
Transistor	SOT-23	BC856B R5	BC856B R5G
Transistor	SOT-23	BC856B R5G	No change
Transistor	SOT-23	BC856B RF	BC856B RFG
Transistor	SOT-23	BC856B RFG	No change
Transistor	SOT-23	BC857A R5	BC857A R5G
Transistor	SOT-23	BC857A R5G	No change
Transistor	SOT-23	BC857A RF	BC857A RFG
Transistor	SOT-23	BC857A RFG	No change
Transistor	SOT-23	BC857B R5	BC857B R5G
Transistor	SOT-23	BC857B R5G	No change
Transistor	SOT-23	BC857B RF	BC857B RFG
Transistor	SOT-23	BC857B RFG	No change
Transistor	SOT-23	BC857C R5	BC857C R5G
Transistor	SOT-23	BC857C R5G	No change
Transistor	SOT-23	BC857C RF	BC857C RFG
Transistor	SOT-23	BC857C RFG	No change
Transistor	SOT-23	BC858A R5	BC858A R5G
Transistor	SOT-23	BC858A R5G	No change
Transistor	SOT-23	BC858A RF	BC858A RFG
Transistor	SOT-23	BC858A RFG	No change
Transistor	SOT-23	BC858B R5	BC858B R5G
Transistor	SOT-23	BC858B R5G	No change
Transistor	SOT-23	BC858B RF	BC858B RFG
Transistor	SOT-23	BC858B RFG	No change
Transistor	SOT-23	BC858C R5	BC858C R5G
Transistor	SOT-23	BC858C R5G	No change
Transistor	SOT-23	BC858C RF	BC858C RFG
Transistor	SOT-23	BC858C RFG	No change
Transistor	SOT-23	MMBT2222A RFG	No change
Transistor	SOT-23	MMBT2907A RF	MMBT2907A RFG
Transistor	SOT-23	MMBT2907A RFG	No change
Transistor	SOT-23	MMBT3904 R5	MMBT3904 R5G
Transistor	SOT-23	MMBT3904 R5G	No change

Family	Package	TSC P/N	New TSC P/N
Transistor	SOT-23	MMBT3904 RF	MMBT3904 RFG
Transistor	SOT-23	MMBT3904 RFG	No change
Transistor	SOT-23	MMBT3904-B0 R5	MMBT3904 R5G
Transistor	SOT-23	MMBT3904-B0 R5G	MMBT3904 R5G
Transistor	SOT-23	MMBT3904-B0 RF	MMBT3904 RFG
Transistor	SOT-23	MMBT3904-B0 RFG	MMBT3904 RFG
Transistor	SOT-23	MMBT3904-D0 R5	MMBT3904 R5G
Transistor	SOT-23	MMBT3904-D0 R5G	MMBT3904 R5G
Transistor	SOT-23	MMBT3904-D0 RF	MMBT3904 RFG
Transistor	SOT-23	MMBT3904-D0 RFG	MMBT3904 RFG
Transistor	SOT-23	MMBT3906 R5	MMBT3906 R5G
Transistor	SOT-23	MMBT3906 R5G	No change
Transistor	SOT-23	MMBT3906 RF	MMBT3906 RFG
Transistor	SOT-23	MMBT3906 RFG	No change
Transistor	SOT-323	BC807-16W RF	BC807-16W RFG
Transistor	SOT-323	BC807-16W RFG	No change
Transistor	SOT-323	BC807-25W RF	BC807-25W RFG
Transistor	SOT-323	BC807-25W RFG	No change
Transistor	SOT-323	BC807-40W RF	BC807-40W RFG
Transistor	SOT-323	BC807-40W RFG	No change
Transistor	SOT-323	BC817-16W RF	BC817-16W RFG
Transistor	SOT-323	BC817-16W RFG	No change
Transistor	SOT-323	BC817-25W RF	BC817-25W RFG
Transistor	SOT-323	BC817-25W RFG	No change
Transistor	SOT-323	BC817-40W RF	BC817-40W RFG
Transistor	SOT-323	BC817-40W RFG	No change
Transistor	SOT-323	BC846AW RF	BC846AW RFG
Transistor	SOT-323	BC846AW RFG	No change
Transistor	SOT-323	BC846BW RF	BC846BW RFG
Transistor	SOT-323	BC846BW RFG	No change
Transistor	SOT-323	BC846CW RF	BC846CW RFG
Transistor	SOT-323	BC846CW RFG	No change
Transistor	SOT-323	BC847AW RF	BC847AW RFG
Transistor	SOT-323	BC847AW RFG	No change
Transistor	SOT-323	BC847BW RF	BC847BW RFG
Transistor	SOT-323	BC847BW RFG	No change
Transistor	SOT-323	BC847CW RF	BC847CW RFG
Transistor	SOT-323	BC847CW RFG	No change
Transistor	SOT-323	BC848AW RF	BC848AW RFG
Transistor	SOT-323	BC848AW RFG	No change
Transistor	SOT-323	BC848BW RF	BC848BW RFG
Transistor	SOT-323	BC848BW RFG	No change
Transistor	SOT-323	BC848CW RF	BC848CW RFG
Transistor	SOT-323	BC848CW RFG	No change
Transistor	SOT-323	BC849AW RF	BC849AW RFG
Transistor	SOT-323	BC849AW RFG	No change
Transistor	SOT-323	BC849BW RF	BC849BW RFG
Transistor	SOT-323	BC849BW RFG	No change
Transistor	SOT-323	BC849CW RF	BC849CW RFG
Transistor	SOT-323	BC849CW RFG	No change
Transistor	SOT-323	BC850AW RF	BC850AW RFG
Transistor	SOT-323	BC850AW RFG	No change
Transistor	SOT-323	BC850BW RF	BC850BW RFG

Family	Package	TSC P/N	New TSC P/N
Transistor	SOT-323	BC850BW RFG	No change
Transistor	SOT-323	BC850CW RF	BC850CW RFG
Transistor	SOT-323	BC850CW RFG	No change
Transistor	SOT-523	MMBT3904T RSG	No change
Transistor	SOT-523	MMBT3906T RSG	No change
Zener Diode	SOD-123	MMSZ4678 RHG	No change
Zener Diode	SOD-123	MMSZ4679 RHG	No change
Zener Diode	SOD-123	MMSZ4680 RHG	No change
Zener Diode	SOD-123	MMSZ4681 RHG	No change
Zener Diode	SOD-123	MMSZ4682 RHG	No change
Zener Diode	SOD-123	MMSZ4683 RHG	No change
Zener Diode	SOD-123	MMSZ4684 RHG	No change
Zener Diode	SOD-123	MMSZ4685 RHG	No change
Zener Diode	SOD-123	MMSZ4686 RHG	No change
Zener Diode	SOD-123	MMSZ4687 RHG	No change
Zener Diode	SOD-123	MMSZ4688 RHG	No change
Zener Diode	SOD-123	MMSZ4689 RHG	No change
Zener Diode	SOD-123	MMSZ4690 RHG	No change
Zener Diode	SOD-123	MMSZ4691 RHG	No change
Zener Diode	SOD-123	MMSZ4692 RHG	No change
Zener Diode	SOD-123	MMSZ4693 RHG	No change
Zener Diode	SOD-123	MMSZ4694 RHG	No change
Zener Diode	SOD-123	MMSZ4695 RHG	No change
Zener Diode	SOD-123	MMSZ4696 RHG	No change
Zener Diode	SOD-123	MMSZ4697 RHG	No change
Zener Diode	SOD-123	MMSZ4698 RHG	No change
Zener Diode	SOD-123	MMSZ4699 RHG	No change
Zener Diode	SOD-123	MMSZ4700 RHG	No change
Zener Diode	SOD-123	MMSZ4701 RHG	No change
Zener Diode	SOD-123	MMSZ4702 RHG	No change
Zener Diode	SOD-123	MMSZ4703 RHG	No change
Zener Diode	SOD-123	MMSZ4704 RHG	No change
Zener Diode	SOD-123	MMSZ4705 RHG	No change
Zener Diode	SOD-123	MMSZ4706 RHG	No change
Zener Diode	SOD-123	MMSZ4707 RHG	No change
Zener Diode	SOD-123	MMSZ4708 RHG	No change
Zener Diode	SOD-123	MMSZ4709 RHG	No change
Zener Diode	SOD-123	MMSZ4710 RHG	No change
Zener Diode	SOD-123	MMSZ4711 RHG	No change
Zener Diode	SOD-123	MMSZ4712 RHG	No change
Zener Diode	SOD-123	MMSZ4713 RHG	No change
Zener Diode	SOD-123	MMSZ4714 RHG	No change
Zener Diode	SOD-123	MMSZ4715 RHG	No change
Zener Diode	SOD-123	MMSZ4716 RHG	No change