Product Change Notice (PCN)

Subject: New revision for 9FGL/9DBL family
Publication Date: 7/26/2022
Effective Date: 12/15/2022

Revision Description:
Revision I. Due to sample availability, Renesas decides to extend PCN effective date, extend LTB and add LTS dates. Revision 0 of this PCN was issued on June 15, 2022.

Description of Change:
This notification is to advise our customers that Renesas is updating the design for the affected parts to improve manufacturing availability in the same fab location. The fab process will change from 0.18um CMOS 1P3M process to 0.18um CMOS 1P5M process.

New orderable part numbers are created for this change. The Last Time Buy (LTB) date for the current part numbers will be December 15, 2022 and the Last Shipment Date (LTS) will be June 15, 2023.

Affected Product List: Refer to Appendix B

Reason for Change:
To improve manufacturing availability and business supply continuity.

Impact on Fit, Form, Function, Quality & Reliability:
The change is expected to have no impact on the form, fit, function, quality, reliability, and environmental compliance of the products.

Product Identification:
A new orderable part number and an updated device top mark will distinguish this change.

- New part numbers for 9DBL family will show “C” in the part #
- New part numbers for 9FGL family will show “D” in the part #

Qualification Status: Completed. Refer to Appendix A
Sample Availability Date: 8/30/2022
Device Material Declaration: Available upon request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.

2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.

3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix A - Qualification Results

Test Description	Conditions	Sample Size	Results (rej/SS)	Comments
High Temperature Operating Life	JESD22-A108, Tj=145°C, Vccmax, 380hrs (equivalent to Tj=125°C/1000hrs)	77	0/77	Pass.
ESD: Human Body Model	JESD22-A114 (JS-001) Classification	3	0/3	Pass 2500V Class 2
ESD: Charged Device Model	JESD22-C101 Classification	3	0/3	Pass 1000V Class C3
Latch-Up	JESD78	6	0/6	Pass. Ta at 85°C
Electrical Characterization	Datasheet	10	Results reported in Datasheet	Completed

Appendix B – Affected Product List

9FGL Current Part# (RevC)	9FGL New part # (RevD)
9FGL0241CKILF	9FGL0241DKILF
9FGL0241CKILFT	9FGL0241DKILFT
9FGL0251CKILF	9FGL0251DKILF
9FGL0251CKILFT	9FGL0251DKILFT
9SQL4952CNLGI	9SQL4952DNLGI
9SQL4952CNLGI8	9SQL4952DNLGI8
9FGL0441CKILF	9FGL0441DKILF
9FGL0441CKILFT	9FGL0441DKILFT
9SQL4954CNLGI	9SQL4954DNLGI
9SQL4954CNLGI8	9SQL4954DNLGI8
9FGL0451CKILF	9FGL0451DKILF
9FGL0451CKILFT	9FGL0451DKILFT
9FGL0641CKILF	9FGL0641DKILF
9FGL0641CKILFT	9FGL0641DKILFT
9FGL0651CKILF	9FGL0651DKILF
9FGL0651CKILFT	9FGL0651DKILFT
9FGL0841CKILF	9FGL0841DKILF
9FGL0841CKILFT	9FGL0841DKILFT
9FGL0851CKILF	9FGL0851DKILF
9FGL0851CKILFT	9FGL0851DKILFT
9SQL4958CNDGI	9SQL4958DNDGI
9SQL4958CNDGI8	9SQL4958DNDGI8

9DBL Current part# (RevB)	9DBL New part# (RevC)
9DBL0242BKILF	9DBL0242CKILF
9DBL0242BKILFT	9DBL0242CKILFT
9DBL0252BKILF	9DBL0252CKILF
9DBL0252BKILFT	9DBL0252CKILFT
9DBL0252BKILF/W	9DBL0252CKILF/W
9DBL0442BKILF	9DBL0442CKILF
9DBL0442BKILFT	9DBL0442CKILFT
9DBL0452BKILF	9DBL0452CKILF
9DBL0452BKILFT	9DBL0452CKILFT
DELL0452BKILF	DELL0452CKILF
DELL0452BKILFT	DELL0452CKILFT
9DBL0641BKILF	9DBL0641CKILF
9DBL0641BKILFT	9DBL0641CKILFT
9DBL0651BKILF	9DBL0651CKILF
9DBL0651BKILFT	9DBL0651CKILFT
DELL0651BKILF	DELL0651CKILF
DELL0651BKILFT	DELL0651CKILFT
9DBL0841BKILF	9DBL0841CKILF
9DBL0841BKILFT	9DBL0841CKILFT
9DBL0851BKILF	9DBL0851CKILF
9DBL0851BKILFT	9DBL0851CKILFT
DELL0851BKILF	DELL0851CKILF
DELL0851BKILFT	DELL0851CKILFT