

Product Advisory (PA)

Subject: DCDC1 fault response change for RAA271080/1/4 product family

Publication Date: 3/6/2026

Effective Date: 5/4/2026

Revision Description:

Initial Release

Description of Change:

During a FAULTED_DN state (initiated by any case2 or case3 fault response), DCDC1 will now immediately shut down (bypass the 3ms wait) if any of these conditions are met:

- 1) DCDC1 SEVERE OV fault
- 2) DCDC1 OC2 fault
- 3) VBAT_BELOW_2p5V fault

Affected Product List:

RAA2710804HNP#HA0
RAA2710814C01HNP#HAD
RAA27108440F1HNP#HAD
RAA2710844241HFP#HAD
RAA2710844241HNP#HAD
RAA2710844281HFP#HAD
RAA2710844801HNP#HAB
RAA2710844R5KHNP#HA0
RAA2710844R61HNP#HA0
RAA2710844R62HNP#HA0
RAA2710844R65HNP#AA0
RAA2710844R65HNP#HA0
RAA2710844R6HHFP#HA0
RAA2710844R6HHNP#HA0
RAA2710844R6JHFP#HA0
RAA2710844R6JHNP#HA0
RAA2710844R6YHFP#HA0
RAA2710844R6YHNP#HA0

Reason for Change:

Prior to the change, during a fault condition affecting DCDC1 (DCDC1 Severe OV, DCDC1 OC2, and VBAT_BELOW_2p5V), DCDC1 would wait 3ms to shut down so that other regulators, supplied by DCDC1, could shut down first. In some applications, this 3ms wait allowed DCDC1 to experience an OV condition that could result in EOS damage to pins connected to VOUT1. An example of such a fault is an uncontrolled and random transient on the input supply which drops below VBAT_SDN (typical 2.5V, maximum 2.7V). Following the change, to avoid the potential for EOS, DCDC1 will shutdown immediately under the three fault conditions referenced.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the devices.

Product Identification:

Products affected by this change are identifiable via Renesas's internal traceability system.

Qualification Status: Not Applicable per AEC-Q100

Sample Availability Date: 3/6/2026

Device Material Declaration: Available upon request

Note :

Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Renesas within 30 days of the publication date.

For additional information regarding this notice, please contact your Renesas sales representative.