

Fifth-generation standalone PWM controllers and CoolSET™ errata sheet

About this document

Scope and purpose

This errata sheet corrects the Current Sense (CS) pin function and description for fifth-generation devices that include the following part numbers:

ICE5QSAG, ICE5QSBG, ICE5ASAG, ICE5GSAG

ICE5QR4770AZ, ICE5QR4780AZ, ICE5QR2270AZ, ICE5QR2280AZ, ICE5QR1070AZ, ICE5QR0680AZ

ICE5QR4770AG, ICE5QR1680AG, ICE5QR0680AG, ICE5QR0680BG

ICE5AR4770AG, ICE5AR0680AG

ICE5GR4780AG, ICE5GR2280AG, ICE5GR1680AG

ICE5AR4770BZS, ICE5AR4780BZS, ICE5AR0680BZS

Intended audience

This errata sheet is intended for designers of SMPS using the devices listed above who have included or intend to include shorting CS pin-to-ground as one of the device verification test items.

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Known issues

1 Known issues

During CS short-to-GND in systems, high drain current that exceeds the absolute maximum rating may damage the device before protection is triggered.

Occurrence: As a result of a blatant attempt to short CS pin-to-ground during device verification, or an unintentional occurrence due to external influences that results in the CS pin being shorted to ground within the application.

Workaround: None. The application should not solely depend on “CS short-to-GND protection” in system verification.

Revision history

Document version	Date of release	Description of changes
1.0	21-01-2020	First release

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