

**Dear Customer,**

With this INFINEON Technologies Errata Note we would like to inform you about the following

**Life time weakness in soft switching for CoolGaN™ products (400-600V)  
Outlook on future improvements**

## Life time weakness in soft switching for CoolGaN™ products (400V & 600V)

► **Products affected:**

Please refer to attached affected product list 1\_cip10230

► **Detailed Change Information:**

**Subject:** Lifetime reduction may happen when CoolGaN products (400V & 600V with OPN's as listed) are operating in soft switching conditions

**Reason:** (1) To inform customer about possible product lifetime reduction when operating in soft switching conditions  
(2) To inform customers about future product improvements

Description:	<u>Today</u>	<u>Future (Spring 2021)</u>
	<ul style="list-style-type: none"><li>■ Operation in soft switching may cause a lifetime reduction and in worst case lead to applications failing in the field</li><li>■ Soft switching transitions (as occurring e.g. in resonant topologies such as LLC and similar topologies) are not recommended with listed products.</li><li>■ Hard switching transitions (as occurring e.g. in topologies such as CCM PFC) are not affected.</li><li>■ Applications should be evaluated for soft switching transients, if such transitions are present productive ramp with listed products should be avoided</li></ul>	<ul style="list-style-type: none"><li>■ Introduction of new material (new OPN) will improve soft switching weakness</li><li>■ PCN is in preparation to move GaN products to improved material (new OPN's)</li><li>■ Final qualification results will be distributed as soon as available</li></ul>

► **Impact of Change:**

- Evaluate usage of listed products in soft switching modes.
- In case of planned ramp with one of the listed products please contact your Infineon sales office for further clarification.
- Change design and feasibility activities towards improved products as soon as possible.

# ERRATA



N° 10230AERRA

► **Attachments:**

Affected product list: 1\_cip10230

► **Implementation Date:**

2020-11-01

If you have any questions, please do not hesitate to contact your local Sales office.