

Dear Customer,

With this Infineon Technologies AG Errata we would like to inform you about the following

Life time weakness in soft switching for CoolGaN™ products (400-600V)
Update: solution to reported risk of lifetime reduction

ERRATA



N° 10230AERRA

!! UPDATE !!

Life time weakness in soft switching for CoolGaN™ products (400V & 600V) Update: solution to reported risk of lifetime reduction

► Products affected:

Affected products and respective replacement products see table below

Affected products				Replacement products		
Sales Name	Package	OPN	SP number	Sales Name	OPN	SP number
IGLD60R070D1	PG-LSON-8	IGLD60R070D1AUMA1	SP001705420	IGLD60R070D1	IGLD60R070D1AUMA3	SP005557209
IGLD60R190D1	PG-LSON-8	IGLD60R190D1AUMA1	SP001705426	IGLD60R190D1	IGLD60R190D1AUMA3	SP005557217
IGO60R070D1 E8220	PG-DSO-20	IGO60R070D1E8220AUMA1	SP001688768	IGO60R070D1	IGO60R070D1AUMA2	SP005557222
IGO60R070D1	PG-DSO-20	IGO60R070D1AUMA1	SP001300362	IGO60R070D1	IGO60R070D1AUMA2	SP005557222
IGOT60R070D1 E8220	PG-DSO-20	IGOT60R070D1E8220AUMA1	SP001671790	IGOT60R070D1	IGOT60R070D1AUMA3	SP005557207
IGOT60R070D1	PG-DSO-20	IGOT60R070D1AUMA1	SP001505772	IGOT60R070D1	IGOT60R070D1AUMA3	SP005557207
IGT40R070D1 E8220	PG-HSOF-8	IGT40R070D1E8220ATMA1	SP001946158	IGT40R070D1	IGT40R070D1ATMA1	SP001998280
IGT60R070D1 E8220	PG-HSOF-8	IGT60R070D1E8220ATMA1	SP001688772	IGT60R070D1	IGT60R070D1ATMA4	SP005557216
IGT60R070D1	PG-HSOF-8	IGT60R070D1ATMA1	SP001300364	IGT60R070D1	IGT60R070D1ATMA4	SP005557216
IGT60R070D1	PG-HSOF-8	IGT60R070D1ATMA2	SP004308606	IGT60R070D1	IGT60R070D1ATMA4	SP005557216
IGT60R190D1S	PG-HSOF-8	IGT60R190D1SATMA1	SP001701702	IGT60R190D1	IGT60R190D1ATMA1	SP005557226
IGOT40R070D1 E8220	PG-DSO-20	IGOT40R070D1E8220AUMA1	SP001946150	Will be discontinued		

► Detailed Change Information:

Subject: Solution to previously reported risk of lifetime reduction of CoolGaN™ products when 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 on implementation of corresponding corrective measures, enabling reliable operation also in soft switching

Description:

Issue

- Operation in soft switching may cause a lifetime reduction and in worst case lead to applications failing in the field
- Soft switching transitions (as occurring e.g. in resonant topologies such as LLC and similar topologies) are not recommended with above listed affected products.
- Hard switching transitions (as occurring e.g. in topologies such as CCM PFC) are not affected.

Status (04/21)

- Root cause is understood and corresponding corrective measures are implemented in all above listed replacement products.
- Introduction of replacement products via change notification and discontinuation of above listed affected product OPN's

- Applications shall be evaluated for soft switching transients; if such transitions are present productive ramp with above listed affected products shall be avoided

► **Impact of Change:**

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

► **Attachments:**

N.A.

► **Implementation Date:**

2021-05-05

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