

Dear Customer,

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

Datasheet update affecting PROFET™+2 12V products in SMART7 technology

N° 107/19

Datasheet update affecting PROFET™+2 12V products in SMART7 technology

► **Products affected:**

Please refer to attached affected product list 1_cip10719

► **Detailed Change Information:**

Subject: Datasheet update to reflect the latest performances of PROFET™+2 12V products

- Reason:**
- **k_{ILIS} improvement** - the amount of production volume for the majority of released products allows Infineon to assess the performances of the products in a more accurate way, so that product specifications of current sense accuracy (k_{ILIS}) are improved
 - **k_{ILIS} activation threshold parameter reference** - the activation of the current sense feature is now described in terms of datasheet parameter (V_{DS(OLOFF)})
 - **Sleep current @ 85°C (typical value) specification update** - the typical value of "Supply Current Consumption in OFF mode with Loads" electrical parameters is updated to reflect the actual performance of the part
 - **Amount of retries in Short Circuit** - investigations on lab test setups highlighted a potential behavior of PROFET™ +2 12V devices caused by fast oscillations of VS potential during a Short Circuit condition. The datasheet update describes how to identify such behavior and how to prepare the PCB to be able to avoid it.
 - Formal changes

Description:

Old

New

- see 4_cip10719 datasheet updates

► **Product Identification:**

not applicable

► **Impact of Change:**

no changes applied on product level

► **Attachments:**

1_cip10719 affected product list
3_cip10719 customer information package
4_cip10719 datasheet updates

INFORMATION NOTE



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► **Intended start of delivery:**

not applicable (documentation update only)

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

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Datasheet Update affecting PROFET™+2 12V Products in SMART7 technology



Sales Name	SP number	OPN	Package
BTS7002-1EPP	SP001605424	BTS70021EPPXUMA1	PG-TSDSO-14-22
BTS7004-1EPP	SP001403858	BTS70041EPPXUMA1	PG-TSDSO-14-22
BTS7006-1EPP	SP001605428	BTS70061EPPXUMA1	PG-TSDSO-14-22
BTS7008-1EPA	SP001225118	BTS70081EPAXUMA1	PG-TSDSO-14-22
BTS7008-1EPP	SP001605432	BTS70081EPPXUMA1	PG-TSDSO-14-22
BTS7008-2EPA	SP001208318	BTS70082EPAXUMA1	PG-TSDSO-14-22
BTS7010-1EPA	SP001225120	BTS70101EPAXUMA1	PG-TSDSO-14-22
BTS7010-2EPA	SP001225128	BTS70102EPAXUMA1	PG-TSDSO-14-22
BTS7012-1EPA	SP001225122	BTS70121EPAXUMA1	PG-TSDSO-14-22
BTS7012-2EPA	SP001225144	BTS70122EPAXUMA1	PG-TSDSO-14-22
BTS7020-2EPA	SP001225130	BTS70202EPAXUMA1	PG-TSDSO-14-22
BTS7030-2EPA	SP001225132	BTS70302EPAXUMA1	PG-TSDSO-14-22
BTS7040-1EPA	SP001225124	BTS70401EPAXUMA1	PG-TSDSO-14-22
BTS7040-2EPA	SP001225134	BTS70402EPAXUMA1	PG-TSDSO-14-22
BTS7080-2EPA	SP001225136	BTS70802EPAXUMA1	PG-TSDSO-14-22
BTS7120-2EPA	SP001225138	BTS71202EPAXUMA1	PG-TSDSO-14-22
BTS7200-2EPA	SP001225140	BTS72002EPAXUMA1	PG-TSDSO-14-22
BTS7200-2EPC	SP002466224	BTS72002EPCXUMA1	PG-TSDSO-14-22