Information note

INF222301

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

Datasheet update for S27KL0642/S27KS0642 HYPERRAM products

On 16 April 2020, Infineon acquired Cypress.
We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.
For further details, please visit our website:

https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/

▶ Products affected

Please refer to attached affected product list [40]

▶ Detailed change information

Subject	Datasheet update for S27KL0642/S27KS0642 HYPERRAM products
Reason	Updates covering datasheet rev *H and *I due to: (a) adjustment in Input leakage current from 0.1µA to 2µA to align with production testing limits. (Change from negative to positive value corrects a typo in the datasheet.) (b) specification of tDSS/tDSH limits for 166MHz instead of 100MHz (c) alignment of input/output timing measurement reference levels with other HYPERBUS memories (reverting to changes per previous revision – Rev *F or earlier)

Description	**Old**	**New**
Datasheet	002-24692; Rev *G	002-24692; Rev *I
ILI1 (Input leakage current)	-0.1 µA	2 µA
ILI2 (Input leakage current)	-0.1 µA	2 µA
tDSS for 166MHz @3.0V -min (RWDS transition to DQ valid)	-0.8 ns	-0.45 ns
tDSS for 166MHz @3.0V -max (RWDS transition to DQ valid)	0.8 ns	0.45 ns
tDSH for 166MHz @3.0V -min (RWDS transition to DQ invalid)	-0.8 ns	-0.45 ns
tDSH for 166MHz @3.0V -max (RWDS transition to DQ invalid)	0.8 ns	0.45 ns
New Note 66		The tDV timing calculation is provided only for reference and not to determine the spec limit. The spec limit is guaranteed by testing.
Timing reference levels - Input	VIH/VIL (Figure 32)	VT (50%) (Figure 27)
Timing reference levels - Output	VOH/VOL (Figure 33)	VT (50%) (Figure 28)

▶ Product identification

Not applicable

▶ Impact of change

No change of product (neither of technology/package nor of chip design) or test program. Changes to data sheet are due to change in measurement methodology.

▶ **Attachments**	Affected product list [40]

▶ **Intended start of delivery**	Immediate

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

Item	Marketing Part Number	Family
1	CA10217AF	SPCM
2	SRC100539254	SPCM
3	P770020D-F20000	SPCM
4	P770020DF20000	SPCM
5	51-43072Z01	SPCM
6	A2C04531000	SPCM
7	S27KL0642DPBHA020	SPCM
8	S27KL0642DPBHA023	SPCM
9	S27KL0642DPBHB020	SPCM
10	S27KL0642DPBHB023	SPCM
11	S27KL0642DPBHI020	SPCM
12	S27KL0642DPBHI023	SPCM
13	S27KL0642DPBHI030	SPCM
14	S27KL0642DPBHI033	SPCM
15	S27KL0642DPBHV020	SPCM
16	S27KL0642DPBHV023	SPCM
17	S27KL0642GABHA020	SPCM
18	S27KL0642GABHA023	SPCM
19	S27KL0642GABHB020	SPCM
20	S27KL0642GABHB023	SPCM
21	S27KL0642GABHI020	SPCM
22	S27KL0642GABHI023	SPCM
23	S27KL0642GABHI030	SPCM
24	S27KL0642GABHI033	SPCM
25	S27KL0642GABHM020	SPCM
26	S27KL0642GABHM023	SPCM
27	S27KL0642GABHV020	SPCM
28	S27KL0642GABHV023	SPCM
29	S27KS0642GABHA020	SPCM
30	S27KS0642GABHA023	SPCM
31	S27KS0642GABHB020	SPCM
32	S27KS0642GABHB023	SPCM
33	S27KS0642GABHI020	SPCM
34	S27KS0642GABHI023	SPCM
35	S27KS0642GABHI030	SPCM
36	S27KS0642GABHI033	SPCM

37	S27KS0642GABHM020	SPCM
38	S27KS0642GABHM023	SPCM
39	S27KS0642GABHV020	SPCM
40	S27KS0642GABHV023	SPCM