



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel (408) 943-2600

PRODUCT CHANGE NOTIFICATION

PCN: PCN165004

Date: December 19, 2016

Subject: Introduction of Die Overcoat for Automotive NOR Flash Memory Products

To: JAMIE PEDERSON
DIGIKEY
digiKey.supplierInfo@digikey.com

Description of Change:

Cypress has qualified a Die Overcoat process for Automotive NOR Flash Memory products for the 65nm GL-S product family manufactured at Fab 25 in Austin, Texas.

Cypress is adding a polybenzoxazole (PBO) layer on the topside of the wafer. Cypress Fab 4 has successfully utilized a Die Overcoat process on non-Flash product production for over a decade. Cypress is now extending this best practice to Fab 25 on the GL-S Automotive NOR Flash Memory product family.

Benefit of Change:

The Die Overcoat will provide a higher level of protection to the silicon surface during production (Fab, Sort, and Assembly). As a result, it will minimize the risk of latent failures due to surface damage. Functionality and specifications remain unchanged.

Affected Parts: 88

Affected Part Numbers:

See the attached 'Affected Parts List' file for the list of part numbers affected by this change. The 'Affected Parts List' includes the customer PPAP Part number, the Cypress Part number as well as the equivalent Sample Part number. Note that any new parts that are introduced after the publication of this PCN will include all changes outlined in this PCN.

Qualification Status:

The change has been qualified through a series of tests documented in Qualification Test Plan QTP 162801. This qualification report can be found as an attachment to this notification.

Sample Status:

Samples are available for representative part numbers as indicated in the attached Affected Parts List. Please contact your local sales representative to place any sample requests as soon as possible.

Approximate Implementation Date:

This change will be effective upon customer approval.

Anticipated Impact:

None anticipated. Products manufactured with the new process are completely compatible with existing products from a functional, parametric, and quality performance perspective.

Based on our history and experience, Cypress sees this as a low-risk change to series production. The Die Overcoat process is a very mature process. It is applied on top of the existing passivation layer and has no electrical interaction with the circuit. Cypress is confident that the implementation of this change will not require our customers to perform extensive qualifications.

Method of Identification:

Cypress maintains traceability of product to wafer level, including wafer fabrication location, through the lot number marked on the package.

Response Required:

No response is required.

For additional information regarding this change, contact your local sales representative or contact the PCN Administrator at pcn_adm@cypress.com.

Sincerely,

Cypress PCN Administration

Item	Marketing Part Number	Equivalent Cypress Part Number	Sample Order Part Number
1	99326-00904	S29GL128S90TFA020	S29GL128S90TFA020
2	99326-01329	S29GL128S90TFI010	S29GL128S90TFA010
3	955153-00027	S29GL128S10TFB020	S29GL128S10TFB020
4	51-22113Z01-A	S29GL512S10TFI010	S29GL512S10TFA010
5	51-22809Z01-A	S29GL256S90TFI010	S29GL256S90TFA010
6	51-22808Z01-A	S29GL128S90TFI010	S29GL128S90TFA010
7	51-02204V01-A	S29GL01GS10DHA020	S29GL01GS10DHA020
8	51-28571Z01-A	S29GL01GS10DHA023	S29GL01GS10DHA023
9	51-32240Z01-A	S29GL512S11TFB010	S29GL512S11TFB010
10	629768800A	S29GL128S10DHB023	S29GL128S10DHB023
11	99326-E1241	S29GL512S11DHA020	S29GL512S10DHA020
12	99326-E1270	S29GL512S10DHA023	S29GL512S10DHA023
13	8909003587	S29GL01GS11DHB013	S29GL01GS11DHB013
14	8909005100	S29GL064S70TFA013	S29GL064S70TFA013
15	8 611 200 891	S29GL512S10DHA023	S29GL512S10DHA023
16	8 611 200 915	S29GL512S10DHA020	S29GL512S10DHA020
17	8 611 200 914	S29GL01GS10DHA020	S29GL01GS10DHA020
18	8 611 200 948	S29GL01GS10DHA023	S29GL01GS10DHA020
19	8 611 200 976	S29GL128S10DHB023	S29GL128S10DHB020
20	8 611 200 989	S29GL512S11DHB023	S29GL512S11DHB020
21	8 611 200 977	S29GL256S90TFA023	S29GL256S90TFA020
22	8 611 200 975	S29GL512S11TFA023	S29GL512S10TFA020
23	8 611 200 138	S29GL256S10DHV023	S29GL256S10DHB020
24	8611200160	S29GL01GS11TFA023	S29GL01GS10TFA020
25	8611200999	S29GL064S80DHB023	S29GL064S80DHB020
26	051GL512S10TFI010	S29GL512S10TFI010	S29GL512S10TFA010
27	051GL256S90TFI010	S29GL256S90TFI010	S29GL256S90TFA010
28	28326167 Rev A	S29GL512S10DHI023	S29GL512S10DHA020
29	28335081 Rev B	S29GL128S11DHV023	S29GL128S11DHB020
30	28370621 Rev A	S29GL128S90TFI023	S29GL128S90TFA020
31	28377399 Rev A	S29GL256S90DHI023	S29GL256S90DHA020
32	28328261 Rev A	S29GL512S10TFI023	S29GL512S10TFA020
33	28329184 Rev A	S29GL01GS11DHIV23	S29GL01GS10DHAB20
34	28319201 Rev A	S29GL256S90TFI023	S29GL256S90TFA020
35	28384698 Rev A	S29GL128S90DHI013	S29GL128S90DHA010
36	28443776 Rev A	S29GL01GS11DHV023	S29GL01GS11DHB020
37	28471162 Rev A	S29GL256S10DHV023	S29GL256S10DHB020
38	462791-0870	S29GL512S11TFAV10	S29GL512S10TFAB10
39	10324-02440	S29GL512S11TFV020	S29GL512S11TFB020
40	10324-04890	S29GL01GS11TFV020	S29GL01GS11TFB020
41	949587-9890	S29GL256S10DHAV10	S29GL256S90DHAB10
42	949587-9870	S29GL256S10DHB020	S29GL256S10DHB020
43	949587-9970	S29GL256S90TFA010	S29GL256S90TFA010
44	949588-0020	S29GL128S90TFA010	S29GL128S90TFA010
45	457780-8510	S29GL256S90TFA010	S29GL256S90TFA010
46	457780-8520	S29GL128S90TFA010	S29GL128S90TFA010
47	949588-0470	S29GL512S11TFB010	S29GL512S11TFB010
48	811600-69370870	S29GL512S10TFI010	S29GL512S10TFA010
49	811600-71480870	S29GL128S90TFI010	S29GL128S90TFA010
50	811600-78030870	S29GL01GS10TFI010	S29GL01GS10TFA010
51	315-0825-000	S29GL128S90DHI020	S29GL128S90DHA020
52	00002444259	S29GL01GS10DHA023	S29GL01GS10DHA020
53	2437530	S29GL256S90DHI023	S29GL256S90DHA020
54	2437530	S29GL256S90DHI020	S29GL256S90DHA020
55	2675454	S29GL256S90DHI020	S29GL256S90DHA020

56	2IO2912ABTA-R	S29GL128S10DHB02	S29GL128S10DHB020
57	EAN62691701	S29GL01GS10TFI020	S29GL01GS10TFA020
58	EAN64171801	S29GL01GS10DHI020	S29GL01GS10DHA020
59	S99GL512S0100 P	S29GL512S11DHB020	S29GL512S11DHB020
60	S99GL512S0190 P	S29GL512S10TFA020	S29GL512S10TFA020
61	S99GL256S0160 P	S29GL256S90TFI020	S29GL256S90TFA020
62	S99GL064S0010 P	S29GL064S70TFI040	S29GL064S70TFA040
63	0791074549RFU00	S29GL256S10TFV010	S29GL256S10TFB010
64	0791075319RFU00	S29GL01GS11TFV020	S29GL01GS11TFB020
65	0791076509RFU00	S29GL064S80TFV030	S29GL064S80TFB030
66	170-0121-000	S29GL512S11DHA023	S29GL512S10DHA020
67	170-0157-000	S29GL512S11GHB020	S29GL512S11GHB020
68	C3FBRY000049	S29GL256S90DHI010	S29GL256S90DHA010
69	S99-50336 P	S29GL128S90TFI020	S29GL128S90TFA020
70	156739-1	S29GL128S10DHI020	S29GL128S90DHA020
71	110778	S29GL128S10DHB013	S29GL128S10DHB010
72	121877	S29GL256S10DHB023	S29GL256S10DHB020
73	122046	S29GL128S10DHB023	S29GL128S10DHB020
74	P770023CF0C000	S29GL512S11DHI023	S29GL512S10DHA020
75	P770010CF9C000	S29GL256S10TFI023	S29GL256S90TFA020
76	P770011CF9C000	S29GL256S11DHV023	S29GL256S10DHB020
77	K770024CF0C000	S29GL512S11DHIV23	S29GL512S10DHAB20
78	P770013CF9C000	S29GL256S11DHIV23	S29GL256S90DHAB20
79	P7700280F0C000	S29GL512S11TFI020	S29GL512S10TFA020
80	P770055CFYC000	S29GL128S90DHI023	S29GL128S90DHA020
81	P770019CF8C002	S29GL128S10TFI023	S29GL128S90TFA020
82	P770020C-F5C000	S29GL01GS11DHV023	S29GL01GS11DHB020
83	P770011C-F9C975 / P770011CF9C975	S29GL256S11DHV023	S29GL256S10DHB020
84	P770011C-F9C353 / P770011CF9C353	S29GL256S11DHV023	S29GL256S10DHB020
85	P770011CF9C375 / P770011C-F9C375	S29GL256S11DHV023	S29GL256S10DHB020
86	P770012CF9C000	S29GL256S11TFV023	S29GL256S10TFB020
87	7GA6Y0090M0	S29GL256S10TFV010	S29GL256S10TFB010
88	S29GL512S11TFB010YZK000	S29GL512S11TFB010	S29GL512S11TFB010