



PRODUCT CHANGE NOTIFICATION

PCN-000941

Date 10 OCT 2023

Change Details			
Part Number(s) Affected: SMDA15C.TBT		Customer Part Number(s) Affected: ☒ N/A	
Description, Purpose and Effect of Change: Semtech is transferring the SMDA15C.TBT to ASMC's 6" wafer fabrication line from our 5" fabrication line. The production flow for 6" wafer parts is as follows: FAB ASMC, Assembly and Test, Tape and Reel are performed at Cirtek.			
Change Classification	☒ Major ☐ Minor	Impact to Form, Fit, Function	☐ Yes ☒ No
Impact to Data Sheet	☐ Yes ☒ No	New Revision or Date	☒ N/A
Impact to Performance, Characteristics or Reliability: There is no impact to form, fit, function, performance, characteristics, or reliability of package.			
Implementation Date	1 JAN 2024	Work Week	TBA
Last Time Ship (LTS) Of unchanged product	N/A	Affecting Lot No. / Serial No. (SN)	N/A
Sample Availability	Immediate	Qualification Report Availability	Attached to Notification
Supporting Documents for Change Validation/Attachments: RJ # 7169 Final			

Quality Assurance		
Semtech Business Unit	Protection	
Semtech Contact Info:	Name: Les Fang Yuen Email: lfangyuen@semtech.com Phn: +1 949-269-4443	
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support		

SMDA15C.TBT/LCDA05.TBT/LCDA12.TBT 6" WAFER QUAL

Semtech Job#	7169
Accepted Date	06-09-2020
Job Type	Qualify SMDA15C.TBT/LCDA05.TBT/LCDA12.TBT with 6 inch wafers (POR is 5 inch)
Qualification Standard	JESD47
Business Unit	Protection
Package Type	SOIC
Package Lead	8
Assembly Designator	Cirtek
Master Process	12G
Fab Designator	ASMC12TVS
Rel Job Status	Rel Testing Complete Passes All Requirements

Completed Tasks

Sub Lot #	Part	Lot	Assembly Lot	Date Code	
1	SMDA15C.TBT	6T2653A	AER-006390	1947	
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
1	Data-Prep	None	None	0	07-30-2020
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	08-04-2020
3	HTRB_Pre_Elect	105	Pass on Zero Fails	0	07-31-2020
4	BI_BD_Valid	105	Meet HTOL Schematics	0	07-30-2020
5	HTRB_150°C_0072	105	Pass on Zero Fails	0	07-31-2020
6	HTRB_150°C_0408	105	Pass on Zero Fails	0	08-03-2020
7	HTS_Pre_Elect	77	Pass on Zero Fails	0	07-31-2020
8	HTS_0168	77	Pass on Zero Fails	0	07-31-2020
9	HTS_0500	77	Pass on Zero Fails	0	08-07-2020
10	HTS_1000	77	Pass on Zero Fails	0	08-21-2020
11	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	08-04-2020
12	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	08-04-2020
13	85/85_120hr_On/Off	20	Pass on Zero Fails	0	08-04-2020
14	Pre_Conditioning_Level_1	NA	MSL 1	0	07-30-2020
15	ROSE Clean/ Test	174	Pass on Zero Fails	0	07-30-2020
16	Pre_Elect_Precond	154	Pass on Zero Fails	0	07-30-2020
17	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	0	07-30-2020
18	Precond_HTS_24hr	154	Pass on Zero Fails	0	07-30-2020
19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	0	07-31-2020
20	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	0	08-07-2020
21	T/C_Pre_Elect	77	Pass on Zero Fails	0	08-07-2020

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
22	T/C_wPre_0250	77	Pass on Zero Fails	0	08-07-2020
23	T/C_wPre_0500	77	Pass on Zero Fails	0	08-13-2020
24	T/C_wPre_1000	77	Pass on Zero Fails	0	08-19-2020
25	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	08-07-2020
26	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	08-11-2020
27	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	08-18-2020
28	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	08-25-2020
29	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	09-14-2020
30	CSAM Analysis	22	Pass on Zero Fails	0	08-04-2020
31	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	08-05-2020
32	Precond_HTS_24hr	22	Pass on Zero Fails	0	08-05-2020
33	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	08-06-2020
34	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	08-13-2020
35	CSAM Analysis	22	Pass on Zero Fails	0	08-14-2020
36	Construct_Fab	Minimum: 1 wafer from a qual lot.	Pass on no major Findings. Q&RA to review findings.	0	10-26-2021
37	CSAM Analysis	22	Pass on Zero Fails	0	10-22-2021
38	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	10-25-2021
39	Precond_HTS_24hr	22	Pass on Zero Fails	0	10-25-2021
40	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	10-26-2021
41	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	11-02-2021
42	CSAM Analysis	22	Pass on Zero Fails	0	11-02-2021
43	FA_CSAM_ANALYSIS	22	Pass on Zero Fails	0	08-17-2020
44	Pack_Clos	0	0	0	10-26-2020

Sub Lot #	Part	Lot	Assembly Lot	Date Code
2	LCDA05.TBT	6T2671A	AER-006391	1947

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
1	Data-Prep	None	None	0	07-30-2020
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	08-04-2020
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	10-21-2021
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	07-31-2020
5	BI_BD_Valid	105	Meet HTOL Schematics	0	07-30-2020
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	07-31-2020
7	HTRB_150°C_0408	105	Pass on Zero Fails	0	08-03-2020
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	07-31-2020
9	HTS_0168	77	Pass on Zero Fails	0	07-31-2020
10	HTS_0500	77	Pass on Zero Fails	0	08-07-2020
11	HTS_1000	77	Pass on Zero Fails	0	08-21-2020
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	08-04-2020
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	08-04-2020
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	08-04-2020
15	Pre_Conditioning_Level_1	NA	MSL 1	0	07-31-2020
16	ROSE Clean/ Test	174	Pass on Zero Fails	0	07-30-2020
17	Pre_Elect_Precond	154	Pass on Zero Fails	0	07-30-2020
18	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	0	07-30-2020
19	Precond_HTS_24hr	154	Pass on Zero Fails	0	07-30-2020
20	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	0	07-31-2020
21	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	0	08-07-2020
22	T/C_Pre_Elect	77	Pass on Zero Fails	0	08-07-2020
23	T/C_wPre_0250	77	Pass on Zero Fails	0	08-07-2020
24	T/C_wPre_0500	77	Pass on Zero Fails	0	08-13-2020
25	T/C_wPre_1000	77	Pass on Zero Fails	0	08-19-2020
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	08-07-2020
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	08-11-2020
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	08-21-2020
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	09-14-2020
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	09-25-2020

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
31	CSAM Analysis	22	Pass on Zero Fails	0	08-04-2020
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	08-05-2020
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	08-05-2020
34	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	08-06-2020
35	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	08-13-2020
36	CSAM Analysis	22	Pass on Zero Fails	0	08-17-2020
37	FA_CSAM_ANALYSIS	22	Pass on Zero Fails	0	08-17-2020
38	Pack_Clos	0	0	0	10-26-2020

Sub Lot #	Part	Lot	Assembly Lot	Date Code	
3	LCDA12.TBT	6T2705A	AER-006628	2016	
Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
1	Data-Prep	None	None	0	12-02-2020
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	0	01-11-2021
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	0	01-26-2021
4	HTRB_Pre_Elect	105	Pass on Zero Fails	0	12-04-2020
5	BI_BD_Valid	105	Meet HTOL Schematics	0	12-04-2020
6	HTRB_150°C_0072	105	Pass on Zero Fails	0	12-04-2020
7	HTRB_150°C_0408	105	Pass on Zero Fails	0	12-07-2020
8	HTS_Pre_Elect	77	Pass on Zero Fails	0	12-03-2020
9	HTS_0168	77	Pass on Zero Fails	0	12-03-2020
10	HTS_0500	77	Pass on Zero Fails	0	12-10-2020
11	HTS_1000	77	Pass on Zero Fails	0	12-24-2020
12	85°C/85%RH_N/Pre_Pre Elec	20	Pass with 0 fail	0	12-03-2020
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	0	12-03-2020
14	85/85_120hr_On/Off	20	Pass on Zero Fails	0	12-03-2020
15	Pre_Conditioning_Level_1	NA	MSL 1	0	12-03-2020

Task#	Task Code	Sample Size	Criteria	Failures	Task On Actual
16	ROSE Clean/ Test	174	Pass on Zero Fails	0	12-02-2020
17	Pre_Elect_Precond	154	Pass on Zero Fails	0	12-03-2020
18	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	0	12-03-2020
19	Precond_HTS_24hr	154	Pass on Zero Fails	0	12-03-2020
20	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	0	12-04-2020
21	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	0	12-18-2020
22	T/C_Pre_Elect	77	Pass on Zero Fails	0	12-18-2020
23	T/C_wPre_0250	77	Pass on Zero Fails	0	12-18-2020
24	T/C_wPre_0500	77	Pass on Zero Fails	0	12-24-2020
25	T/C_wPre_1000	77	Pass on Zero Fails	0	01-04-2021
26	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	0	12-18-2020
27	85°C/85%RH_BD_Valid	77	Pass on Zero Fails	0	12-18-2020
28	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	0	12-18-2020
29	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	0	12-25-2020
30	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	0	01-04-2021
31	CSAM Analysis	22	Pass on Zero Fails	0	01-15-2021
32	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	0	01-18-2021
33	Precond_HTS_24hr	22	Pass on Zero Fails	0	01-18-2021
34	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	0	01-19-2021
35	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	0	01-26-2021
36	CSAM Analysis	22	Pass on Zero Fails	0	02-02-2021
37	FA_CSAM_ANALYSIS	22	Pass on Zero Fails	0	02-03-2021
38	Pack_Clos	0	0	0	02-18-2021