



PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000444 - Disty

Date: 6SEP2017

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☒	Semtech Corporation, 200 Flynn Road, Camarillo CA 93012
☐	Semtech Canada Corporation, 4281 Harvester Road, Burlington, Ontario L7L 5M4 Canada
☐	Semtech Irvine, 5141 California Ave., Suite 100, Irvine CA 92617
☐	Semtech Neuchatel Sarl, Route des Gouttes d'Or 40, CH-2000 Neuchatel Switzerland
☐	Semtech Bristol - EMEA Limited, Block B, St James Court, Great Park Road, Bristol BS32 4QJ, UK
☐	Semtech Corpus Christi SA de CV, Carretera Matamorros Edificio 7, Reynosa, Tamaulipas, Mexico 88780
☐	Semtech Plano, 1101 Resource Drive, Suite 121, Plano TX 75074
☐	

Change Details

Part Number(s) Affected:

RClamp0524PA

Customer Part Number(s) Affected: ☒ N/A

Description, Purpose and Effect of Change:

For the benefit of our customers, Semtech has qualified additional manufacturing capacity for Protection Products.

- a. The additional Assembly and Test Capacity is Huatian Electronics Co, Ltd, China

Special Note:

Due to increases in demand for the RClamp0524PA product, we are running into capacity constraints at our assembly supplier. We have been working for the past year to qualify Huatian as another assembly site for this product. Our qualification is now fully completed and we are now able to ship production quantities from both Huatian and Diodes. In order to meet our current demand, we need you to review and approve this PCN by October 15th.

Change Classification	☒ Major ☐ Minor	Impact to Form, Fit, Function	☐ Yes ☒ No
Impact to Datasheet	☐ Yes ☒ No	New Revision or Date	☒ N/A

Impact to Performance, Characteristics or Reliability:

- NO impact to data sheet content or package dimensions
- NO impact to performance, characteristics; or reliability

Implementation Date	15OCT2017	Work Week	TBA
Last Time Ship (LTS) Of unchanged product	Not Applicable Additional capacity	Affecting Lot No. / Serial No. (SN)	N/A
Sample Availability	1SEP2017	Qualification Report Availability	Included with Notification

Supporting Documents for Change Validation/Attachments:

- Product Qualification Report



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Issuing Authority		
Semtech Business Unit:	Protection	
Semtech Contact Info:	Les Fang Yuen Semtech Corporation Sr. Eng Manager, QA 200 Flynn Road Camarillo, CA 93012 Email: lfangyuen@semtech.com Phone:: (949) 269-4443 [office]	
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support		

Rel Job Detail Report

by Sublot, by Sequence
Contact: Gurmail Sajjan
(805) 480 2142
gsajjan@semtech.com

Businessunit	Protection			
Reljob#	Part_Number, Job Name/Type	Fab, Package	Rel Job Status	Key Dates:
6334	RClamp0524PA	ASMC21 TVS	Rel Testing Complete Passes All Requirements	Job Accepted: 19-Apr-2017
	RClamp0524PA	SLP2510P8		Requested CD:
	New Product on qualified process with un-qualified package			Actual Start Date: 14-Mar-2017
				ECD for Conditional:
				Job ECD: 01-Aug-2017

Completed Tasks

1.0	Lot	AssemblyLot	DateCode				
	AER3995	AER3995	1712				
Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	26-May-2017		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	06-Jun-2017	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	08-Jun-2017	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	01-Jun-2017	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	02-Jun-2017	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	05-Jun-2017	0	Camarillo	
7	HTRB_150°C_0408	105	Pass on Zero Fails	19-Jun-2017	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	02-Jun-2017	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	09-Jun-2017	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	23-Jun-2017	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	14-Jul-2017	0	Camarillo	
12	85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	07-Jun-2017	0	Camarillo	
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	07-Jun-2017	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	12-Jun-2017	0	Camarillo	
15	Pre_Conditioning_Level_1	NA	MSL 1	30-May-2017		Camarillo	

Rel Job Detail Report

by Sublot, by Sequence
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16 Pre_Elect_Precond	154	Pass on Zero Fails	02-Jun-2017	0	Camarillo
17 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	02-Jun-2017	0	Camarillo
18 Precond_HTS_24hr	154	Pass on Zero Fails	05-Jun-2017	0	Camarillo
19 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	13-Jun-2017	0	Camarillo
20 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	13-Jun-2017	0	Camarillo
21 T/C_Pre_Elect	77	Pass on Zero Fails	13-Jun-2017	0	Camarillo
22 T/C_wPre_0250	77	Pass on Zero Fails	19-Jun-2017	0	Camarillo
23 T/C_wPre_0500	77	Pass on Zero Fails	28-Jun-2017	0	Camarillo
24 T/C_wPre_1000	77	Pass on Zero Fails	05-Jul-2017	0	Camarillo
25 Cross_Section TC 1000 Cyc	15	Pass on Zero Fails	10-Jul-2017	0	Camarillo
26 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	13-Jun-2017	0	Camarillo
27 85°C/85%RH_BD_Valid	77	Pass on Zero Fails	15-Jun-2017	0	Camarillo
28 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	22-Jun-2017	0	Camarillo
29 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	06-Jul-2017	0	Camarillo
30 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	27-Jul-2017	0	Camarillo
31 Cross_Section 85°C/85%RH	15	Pass on Zero Fails	27-Jul-2017	0	Camarillo
32 CSAM Analysis	22	Pass on Zero Fails	08-Jun-2017	0	Camarillo
33 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	08-Jun-2017	0	Camarillo
34 Precond_HTS_24hr	22	Pass on Zero Fails	09-Jun-2017	0	Camarillo
35 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	16-Jun-2017	0	Camarillo
36 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	16-Jun-2017	0	Camarillo
37 CSAM Analysis	22	Pass on Zero Fails	22-Jun-2017	0	Camarillo
38 Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	19-Jun-2017	0	Camarillo
39 Rider_Card_Wash/Bake	154		24-May-2017		Camarillo
40 Pack_Clos	0	0	28-Jul-2017		Camarillo

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2.0	Lot	AER3996	AssemblyLot	AER3996	DateCode	1712	
Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	26-May-2017		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	06-Jun-2017	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	09-Jun-2017	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	01-Jun-2017	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	02-Jun-2017	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	05-Jun-2017	0	Camarillo	
7	HTRB_150°C_0408	105	Pass on Zero Fails	06-Jul-2017	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	02-Jun-2017	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	09-Jun-2017	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	23-Jun-2017	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	14-Jul-2017	0	Camarillo	
12	85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	07-Jun-2017	0	Camarillo	
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	07-Jun-2017	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	12-Jun-2017	0	Camarillo	
15	Pre_Elect_Precond	154	Pass on Zero Fails	05-Jun-2017	0	Camarillo	
16	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	05-Jun-2017	0	Camarillo	
17	Precond_HTS_24hr	154	Pass on Zero Fails	06-Jun-2017	0	Camarillo	
18	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	13-Jun-2017	0	Camarillo	
19	Precond_IR_Refl_Char	154	Pass on Zero Fails	13-Jun-2017	0	Camarillo	
20	T/C_Pre_Elect	77	Pass on Zero Fails	13-Jun-2017	0	Camarillo	
21	T/C_wPre_0250	77	Pass on Zero Fails	19-Jun-2017	0	Camarillo	
22	T/C_wPre_0500	77	Pass on Zero Fails	28-Jun-2017	0	Camarillo	
23	T/C_wPre_1000	77	Pass on Zero Fails	05-Jul-2017	0	Camarillo	
24	Cross_Section TC 1000 Cyc	15	Pass on Zero Fails	05-Jul-2017	0	Camarillo	
25	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	13-Jun-2017	0	Camarillo	

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26 85°C/85%RH_BD_Valid	77	Pass on Zero Fails	15-Jun-2017	0	Camarillo	
27 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	22-Jun-2017	0	Camarillo	
28 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	06-Jul-2017	0	Camarillo	
29 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	27-Jul-2017	0	Camarillo	
30 Cross_Section 85°C/85%RH	15	Pass on Zero Fails	27-Jul-2017	0	Camarillo	
31 Rider_Card_Wash/Bake	154		24-May-2017		Camarillo	
32 FA_HTRB_150°C_0408	1	Pass on Zero Fails	06-Jul-2017	0	Camarillo	Cleaned with Acetone and tested On KTS20.The part passed.
33 Pack_Clos	0	0	28-Jul-2017		Camarillo	

3.0	Lot	AER3997	AssemblyLot	AER3997	DateCode	1712
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Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	26-May-2017		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails	06-Jun-2017	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	13-Jun-2017	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	01-Jun-2017	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	02-Jun-2017	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	05-Jun-2017	0	Camarillo	
7	HTRB_150°C_0408	105	Pass on Zero Fails	19-Jun-2017	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	02-Jun-2017	0	Camarillo	
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12	85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	07-Jun-2017	0	Camarillo	
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails	07-Jun-2017	0	Camarillo	
14	85/85_120hr_On/Off	20	Pass on Zero Fails	12-Jun-2017	0	Camarillo	
15	Pre_Elect_Precond	154	Pass on Zero Fails	05-Jun-2017	0	Camarillo	

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17 Precond_HTS_24hr	154	Pass on Zero Fails	06-Jun-2017	0	Camarillo
18 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	13-Jun-2017	0	Camarillo
19 Precond_IR_Refl_Char	154	Pass on Zero Fails	13-Jun-2017	0	Camarillo
20 T/C_Pre_Elect	77	Pass on Zero Fails	13-Jun-2017	0	Camarillo
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30 Cross_Section 85°C/85%RH	15	Pass on Zero Fails	28-Jul-2017	0	Camarillo
31 Rider_Card_Wash/Bake	154		24-May-2017		Camarillo
32 Pack_Clos	0	0	31-Jul-2017		Camarillo