



PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000511

Date: 5OCT2018

P1/1

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

Change Details

Part Number(s) Affected: RClamp3521P.TNT	Customer Part Number(s) Affected: <input checked="" type="checkbox"/> N/A
--	--

Description, Purpose and Effect of Change:

For the benefit of our customers, Semtech has qualified additional manufacturing capacity for RClamp3521P.TNT.

a. The additional assembly plant is Huatian Xi'an

Change Classification	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	Impact to Form, Fit, Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Impact to Data Sheet	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	New Revision or Date	<input checked="" type="checkbox"/> 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	3JAN2019	Work Week	Pending customer approval
Last Time Ship (LTS) Of unchanged product	Does not apply Additional assembly site	Affecting Lot No. / Serial No. (SN)	Pending customer approval
Sample Availability	5OCT2018 Requires Sample Order	Qualification Report Availability	Included in Notification

Supporting Documents for Change Validation/Attachments:

- Reliability Test Report Included [Rel Job #: 6705]

Issuing Authority

Semtech Business Unit:		
Semtech Contact Info:	Les Fang Yuen Semtech Corporation Sr. Engineering Manager, QA 200 Flynn Road Camarillo, CA 93012 lfangyuen@semtech.com Office: (949) 269-4443	

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

<i>Businessunit</i>	<i>Protection</i>			
<i>Reljob#</i>	<i>Part_Number, Job Name/Type</i>	<i>Fab, Package</i>	<i>Rel Job Status</i>	<i>Key Dates:</i>
6705	RClamp3521P Package (Huatian Xi'an) Qualification New Product on qualified process with un-qualified package	Tower/ Palm-D SLP1006P2	Finished Creating Reliability Test Plan	<i>Job Accepted:</i> 31-Jul-2018 <i>Requested CD:</i> <i>Actual Start Date:</i> 31-Jul-2018 <i>ECD for Conditional:</i> <i>Job ECD:</i>

In-Complete Tasks

<i>I.O</i>	<i>Lot</i>	<i>Assembly_Lot</i>	<i>Date_Code</i>					
<i>Seq</i>	<i>Task_Code</i>	<i>SampleSize</i>	<i>Criteria</i>	<i>ECD</i>	<i>I-Failures</i>	<i>Data_Source</i>	<i>Results/Comments</i>	<i>FA</i>
1	Data-Prep	None	None			Camarillo		
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails			Camarillo		
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails			Camarillo		
4	HTRB_Pre_Elect	105	Pass on Zero Fails			Camarillo		
5	BI_BD_Valid	NA	Meet HTOL Schematics			Camarillo		
6	HTRB_150°C_0072	105	Pass on Zero Fails			Camarillo		
7	HTRB_150°C_0408	105	Pass on Zero Fails			Camarillo		
8	HTS_Pre_Elect	77	Pass on Zero Fails			Camarillo		
9	HTS_0168	77	Pass on Zero Fails			Camarillo		
10	HTS_0500	77	Pass on Zero Fails			Camarillo		
11	HTS_1000	77	Pass on Zero Fails			Camarillo		
12	85/85_W/Pre_Pre Elec	77				Camarillo		
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails			Camarillo		
14	85/85_120hr_On/Off	20	Pass on Zero Fails			Camarillo		
15	Pre_Conditioning_Level_1	NA	MSL 1			Camarillo		

Rel Job Detail Report

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

16	Pre_Elect_Precond	154	Pass on Zero Fails	Camarillo
17	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	Camarillo
18	Precond_HTS_24hr	154	Pass on Zero Fails	Camarillo
19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	Camarillo
20	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	Camarillo
21	T/C_Pre_Elect	77	Pass on Zero Fails	Camarillo
22	T/C_wPre_0250	77	Pass on Zero Fails	Camarillo
23	T/C_wPre_0500	77	Pass on Zero Fails	Camarillo
24	T/C_wPre_1000	77	Pass on Zero Fails	Camarillo
25	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	Camarillo
27	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	Camarillo
28	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	Camarillo
29	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	Camarillo
30	CSAM Analysis	22	Pass on Zero Fails	Camarillo
31	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	Camarillo
32	Precond_HTS_24hr	22	Pass on Zero Fails	Camarillo
33	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	Camarillo
34	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	Camarillo
35	CSAM Analysis	22	Pass on Zero Fails	Camarillo
36	Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	Camarillo
37	Rider_Card_Wash/Bake			Camarillo
38	Pack_Clos	0	0	Camarillo

2.0	Lot	Assembly_Lot	Date_Code					
Seq	Task_Code	SampleSize	Criteria	ECD	I-Failures	Data_Source	Results/Comments	FA
1	Data-Prep	None	None			Camarillo		
2	HTRB_Pre_Elect_150°C_RT24	105				Camarillo		

Rel Job Detail Report

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

3 HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	Camarillo
4 HTRB_Pre_Elect	105	Pass on Zero Fails	Camarillo
5 BI_BD_Valid	NA	Meet HTOL Schematics	Camarillo
6 HTRB_150°C_0072	105	Pass on Zero Fails	Camarillo
7 HTRB_150°C_0408	105	Pass on Zero Fails	Camarillo
8 HTS_Pre_Elect	77	Pass on Zero Fails	Camarillo
9 HTS_0168	77	Pass on Zero Fails	Camarillo
10 HTS_0500	77	Pass on Zero Fails	Camarillo
11 HTS_1000	77	Pass on Zero Fails	Camarillo
12 85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	Camarillo
13 85°C/85%RH_BD_Valid	20	Pass on Zero Fails	Camarillo
14 85/85_120hr_On/Off	20	Pass on Zero Fails	Camarillo
15 Pre_Conditioning_Level_1	NA	MSL 1	Camarillo
16 Pre_Elect_Precond	154	Pass on Zero Fails	Camarillo
17 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	Camarillo
18 Precond_HTS_24hr	154	Pass on Zero Fails	Camarillo
19 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	Camarillo
20 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	Camarillo
21 T/C_Pre_Elect	77	Pass on Zero Fails	Camarillo
22 T/C_wPre_0250	77	Pass on Zero Fails	Camarillo
23 T/C_wPre_0500	77	Pass on Zero Fails	Camarillo
24 T/C_wPre_1000	77	Pass on Zero Fails	Camarillo
25 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	Camarillo
27 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	Camarillo
28 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	Camarillo
29 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	Camarillo
30 CSAM Analysis	22	Pass on Zero Fails	Camarillo

Rel Job Detail Report

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

31 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	Camarillo
32 Precond_HTS_24hr	22	Pass on Zero Fails	Camarillo
33 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	Camarillo
34 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	Camarillo
35 CSAM Analysis	22	Pass on Zero Fails	Camarillo
36 Rider_Card_Wash/Bake			Camarillo
37 Pack_Clos	0	0	Camarillo

<i>3.0</i> Lot	Assembly_Lot	Date_Code					
<i>Seq Task_Code</i>	<i>SampleSize</i>	<i>Criteria</i>	<i>ECD</i>	<i>I-Failures</i>	<i>Data_Source</i>	<i>Results/Comments</i>	<i>FA</i>
1 Data-Prep	None	None			Camarillo		
2 HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails			Camarillo		
3 HTRB_150°C_Real Time_0024	105	Pass on Zero Fails			Camarillo		
4 HTRB_Pre_Elect	105	Pass on Zero Fails			Camarillo		
5 BI_BD_Valid	NA	Meet HTOL Schematics			Camarillo		
6 HTRB_150°C_0072	105	Pass on Zero Fails			Camarillo		
7 HTRB_150°C_0408	105	Pass on Zero Fails			Camarillo		
8 HTS_Pre_Elect	77	Pass on Zero Fails			Camarillo		
9 HTS_0168	77	Pass on Zero Fails			Camarillo		
10 HTS_0500	77	Pass on Zero Fails			Camarillo		
11 HTS_1000	77	Pass on Zero Fails			Camarillo		
12 85/85_W/Pre_Pre Elec	20	Pass on Zero Fails			Camarillo		
13 85°C/85%RH_BD_Valid	20	Pass on Zero Fails			Camarillo		
14 85/85_120hr_On/Off	20	Pass on Zero Fails			Camarillo		
15 Pre_Conditioning_Level_1	NA	MSL 1			Camarillo		
16 Pre_Elect_Precond	154	Pass on Zero Fails			Camarillo		
17 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails			Camarillo		
18 Precond_HTS_24hr	154	Pass on Zero Fails			Camarillo		

Rel Job Detail Report

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

19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	Camarillo
20	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	Camarillo
21	T/C_Pre_Elect	77	Pass on Zero Fails	Camarillo
22	T/C_wPre_0250	77	Pass on Zero Fails	Camarillo
23	T/C_wPre_0500	77	Pass on Zero Fails	Camarillo
24	T/C_wPre_1000	77	Pass on Zero Fails	Camarillo
25	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	Camarillo
27	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	Camarillo
28	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	Camarillo
29	85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	Camarillo
30	CSAM Analysis	22	Pass on Zero Fails	Camarillo
31	Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	Camarillo
32	Precond_HTS_24hr	22	Pass on Zero Fails	Camarillo
33	Precond_85/85_NoElec168hr	22	Pass on Zero Fails	Camarillo
34	Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	Camarillo
35	CSAM Analysis	22	Pass on Zero Fails	Camarillo
36	Rider_Card_Wash/Bake			Camarillo
37	Pack_Clos	0	0	Camarillo

Tasks Needed for Conditional Qual

1.0	Lot	0	Assembly_Lot	0	Date_Code	0			
Seq	Task_Code	SampleSize	Criteria	ECD	I-Failures	Data_Source	Results/Comments	FA	
1	Data-Prep	None	None			Camarillo			
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails			Camarillo			
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails			Camarillo			
4	HTRB_Pre_Elect	105	Pass on Zero Fails			Camarillo			
5	BI_BD_Valid	NA	Meet HTOL Schematics			Camarillo			

Rel Job Detail Report

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

6 HTRB_150°C_0072	105	Pass on Zero Fails	Camarillo
7 HTRB_150°C_0408	105	Pass on Zero Fails	Camarillo
8 HTS_Pre_Elect	77	Pass on Zero Fails	Camarillo
9 HTS_0168	77	Pass on Zero Fails	Camarillo
10 HTS_0500	77	Pass on Zero Fails	Camarillo
11 HTS_1000	77	Pass on Zero Fails	Camarillo
12 85/85_W/Pre_Pre Elec	20	Pass on Zero Fails	Camarillo
13 85°C/85%RH_BD_Valid	20	Pass on Zero Fails	Camarillo
14 85/85_120hr_On/Off	20	Pass on Zero Fails	Camarillo
15 Pre_Conditioning_Level_1	NA	MSL 1	Camarillo
16 Pre_Elect_Precond	154	Pass on Zero Fails	Camarillo
17 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	Camarillo
18 Precond_HTS_24hr	154	Pass on Zero Fails	Camarillo
19 Precond_85/85_NoElec168hr	154	Pass on Zero Fails	Camarillo
20 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	Camarillo
21 T/C_Pre_Elect	77	Pass on Zero Fails	Camarillo
22 T/C_wPre_0250	77	Pass on Zero Fails	Camarillo
23 T/C_wPre_0500	77	Pass on Zero Fails	Camarillo
24 T/C_wPre_1000	77	Pass on Zero Fails	Camarillo
25 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails	Camarillo
27 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails	Camarillo
28 85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails	Camarillo
29 85°C/85%RH_Biased_1000hrs	77	Pass on Zero Fails	Camarillo
30 CSAM Analysis	22	Pass on Zero Fails	Camarillo
31 Precond_Temp_Cyc_5cyc	22	Pass on Zero Fails	Camarillo
32 Precond_HTS_24hr	22	Pass on Zero Fails	Camarillo
33 Precond_85/85_NoElec168hr	22	Pass on Zero Fails	Camarillo

Rel Job Detail Report

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

34 Precond_260°C_IR_Ref_Char	22	Pass on Zero Fails	Camarillo
35 CSAM Analysis	22	Pass on Zero Fails	Camarillo
36 Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	Camarillo
37 Rider_Card_Wash/Bake			Camarillo

Rel Job Detail Report

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

2.0	Lot	Assembly_Lot	Date_Code					
Seq	Task_Code	SampleSize	Criteria	ECD	I-Failures	Data_Source	Results/Comments	FA
1	Data-Prep	None	None			Camarillo		
2	HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails			Camarillo		
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails			Camarillo		
4	HTRB_Pre_Elect	105	Pass on Zero Fails			Camarillo		
5	BI_BD_Valid	NA	Meet HTOL Schematics			Camarillo		
6	HTRB_150°C_0072	105	Pass on Zero Fails			Camarillo		
8	HTS_Pre_Elect	77	Pass on Zero Fails			Camarillo		
9	HTS_0168	77	Pass on Zero Fails			Camarillo		
10	HTS_0500	77	Pass on Zero Fails			Camarillo		
12	85/85_W/Pre_Pre Elec	20	Pass on Zero Fails			Camarillo		
13	85°C/85%RH_BD_Valid	20	Pass on Zero Fails			Camarillo		
14	85/85_120hr_On/Off	20	Pass on Zero Fails			Camarillo		
15	Pre_Conditioning_Level_1	NA	MSL 1			Camarillo		
16	Pre_Elect_Precond	154	Pass on Zero Fails			Camarillo		
17	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails			Camarillo		
18	Precond_HTS_24hr	154	Pass on Zero Fails			Camarillo		
19	Precond_85/85_NoElec168hr	154	Pass on Zero Fails			Camarillo		
20	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails			Camarillo		
22	T/C_wPre_0250	77	Pass on Zero Fails			Camarillo		
23	T/C_wPre_0500	77	Pass on Zero Fails			Camarillo		
25	85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails			Camarillo		
27	85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails			Camarillo		
28	85°C/85%RH_Biased_500hrs	77	Pass on Zero Fails			Camarillo		

Rel Job Detail Report

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

3.0 Lot	Assembly_Lot	Date_Code					
Seq Task_Code	SampleSize	Criteria	ECD	I-Failures	Data_Source	Results/Comments	FA
1 Data-Prep	None	None			Camarillo		
2 HTRB_Pre_Elect_150°C_RT24	105	Pass on Zero Fails			Camarillo		
3 HTRB_150°C_Real Time_0024	105	Pass on Zero Fails			Camarillo		
4 HTRB_Pre_Elect	105	Pass on Zero Fails			Camarillo		
5 BI_BD_Valid	NA	Meet HTOL Schematics			Camarillo		
6 HTRB_150°C_0072	105	Pass on Zero Fails			Camarillo		
8 HTS_Pre_Elect	77	Pass on Zero Fails			Camarillo		
9 HTS_0168	77	Pass on Zero Fails			Camarillo		
15 Pre_Conditioning_Level_1	NA	MSL 1			Camarillo		
16 Pre_Elect_Precond	154	Pass on Zero Fails			Camarillo		
17 Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails			Camarillo		
18 Precond_HTS_24hr	154	Pass on Zero Fails			Camarillo		
19 Precond_85/85_NoElec168hr	154	Pass on Zero Fails			Camarillo		
20 Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails			Camarillo		
21 T/C_Pre_Elect	77	Pass on Zero Fails			Camarillo		
22 T/C_wPre_0250	77	Pass on Zero Fails			Camarillo		
25 85°C/85%RH_W/Pre_Pre Elec	77	Pass on Zero Fails			Camarillo		
27 85°C/85%RH_Biased_168hrs	77	Pass on Zero Fails			Camarillo		