Change Notification

Process Change Notification #:   PCN-000223
Date Issued: **12/25/2013**

Semtech Corporation is providing this Change Notification to our customers notifying the qualification of copper wire bonding at our assembly & test supplier. This change affects the following product.

- RClamp1502B.TCT

Semtech's Change Evaluation Team has classified this change as major. Specifically, the supplier Diodes has qualified 0.8 mil copper wire to replace 0.8 mil gold wire. This will result in no change to form, fit, function, and reliability or datasheet specifications. Semtech has completed reliability testing of this part number and it meets Semtech's reliability requirements. Semtech's qualification was completed on Oct 20, 2013. (Ref: Reliability Test Report # 5621).

It is Semtech's intention to fully implement this change to the aforementioned products no later than March 25, 2014 pursuant to the notification guidelines of JEDEC 46. After which; aforementioned products will only be offered with copper wire when existing inventories manufactured with gold wire are depleted. Copper wire samples are currently available.

If you wish to acquire samples, please do not hesitate to contact your local Semtech sales representative. The samples will be available now. If you have any questions regarding our qualification requirements, do not hesitate to give me a call.

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by Sublot, by Sequence
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Businessunit	Protection			
Reljob#	**Part_Number, Job Name/Type**	**Fab, Package**	**Rel Job Status**	**Key Dates:**

5621	RClamp1502B	ASMC11TVS	Rel Testing Complete Passes All Requirements	*Job Accepted:* 17-Jul-2013
	Package (Cu wire) qual	SC75 (SOT-523)		*Requested CD:*
	New Product on qualified process with un-qualified package		.	*Actual Start Date:* 17-Jul-2013
				ECD for Conditional:
				Job ECD: 20-Oct-2013

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Completed Tasks

1.0	**Lot** AER1212	**AssemblyLot** AER1212	**DateCode** 1327				
Seq TaskCode		**SampleSize**	**Criteria**	**Complete**	**Failures**	**DataSource**	**Results/Comments**
1	Data-Prep	None	None	30-Jul-2013		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105		15-Aug-2013	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	09-Sep-2013	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	01-Aug-2013	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	05-Aug-2013	0	Camarillo	
7	HTRB_150°C _0408	105	Pass on Zero Fails	21-Aug-2013	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	30-Jul-2013	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	06-Aug-2013	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	16-Aug-2013	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	10-Sep-2013	0	Camarillo	
13	Pre_Elect_Precond	154	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
14	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
15	Precond_HTS_24hr	154	Pass on Zero Fails	01-Aug-2013	0	Camarillo	
16	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	08-Aug-2013	0	Camarillo	

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17	Precond_IR_Refl_Char	154	Pass on Zero Fails	08-Aug-2013	0	Camarillo
18	T/C_Pre_Elect	77	Pass on Zero Fails	08-Aug-2013	0	Camarillo
19	T/C_wPre_0250	77	Pass on Zero Fails	13-Aug-2013	0	Camarillo
20	T/C_wPre_0500	77	Pass on Zero Fails	21-Aug-2013	0	Camarillo
21	T/C_wPre_1000	77	Pass on Zero Fails	29-Aug-2013	0	Camarillo
22	HAST Pre_Elect	77	Pass on Zero Fails	08-Aug-2013	0	Camarillo
23	HAST_BD_Validation	N/A	Pass on Zero Fails	13-Aug-2013	0	Camarillo
24	HAST_wPRE_0200	77	Pass on Zero Fails	23-Aug-2013	0	Camarillo
25	Construct_Package	5 unique packaged devices minimum.	No Major Findings, Q&R to review construction analysis report.	12-Aug-2013	0	Camarillo
26	CSAM Analysis		Pass on Zero Fails	31-Jul-2013	0	Camarillo
27	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	05-Aug-2013	0	Camarillo
28	Precond_HTS_24hr	154	Pass on Zero Fails	06-Aug-2013	0	Camarillo
29	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	13-Aug-2013	0	Camarillo
30	Precond_260°C_IR_Ref_Char	154	Pass on Zero Fails	13-Aug-2013	0	Camarillo
31	CSAM Analysis		Pass on Zero Fails	14-Aug-2013	0	Camarillo
32	Pack_Clos	0	0	11-Sep-2013		Camarillo

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| 2.0 | **Lot** | AER1213 | **AssemblyLot** | AER1213 | **DateCode** | 1327 | | |

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	30-Jul-2013		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105		15-Aug-2013	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	09-Sep-2013	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	01-Aug-2013	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	05-Aug-2013	0	Camarillo	
7	HTRB_150°C _0408	105	Pass on Zero Fails	21-Aug-2013	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	30-Jul-2013	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	06-Aug-2013	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	16-Aug-2013	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	10-Sep-2013	0	Camarillo	
13	Pre_Elect_Precond	154	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
14	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
15	Precond_HTS_24hr	154	Pass on Zero Fails	01-Aug-2013	0	Camarillo	
16	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
17	Precond_IR_Refl_Char	154	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
18	T/C_Pre_Elect	77	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
19	T/C_wPre_0250	77	Pass on Zero Fails	13-Aug-2013	0	Camarillo	
20	T/C_wPre_0500	77	Pass on Zero Fails	21-Aug-2013	0	Camarillo	
21	T/C_wPre_1000	77	Pass on Zero Fails	29-Aug-2013	0	Camarillo	
22	HAST Pre_Elect	77	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
23	HAST_BD_Validation	N/A	Pass on Zero Fails	13-Aug-2013	0	Camarillo	
24	HAST_wPRE_0200	77	Pass on Zero Fails	23-Aug-2013	0	Camarillo	
25	Pack_Clos	0	0	11-Sep-2013		Camarillo	

3.0 **Lot** AER1214   **AssemblyLot**   AER1214   **DateCode**   1327

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	30-Jul-2013		Camarillo	
2	HTRB_Pre_Elect_150°C_RT24	105		15-Aug-2013	0	Camarillo	
3	HTRB_150°C_Real Time_0024	105	Pass on Zero Fails	10-Sep-2013	0	Camarillo	
4	HTRB_Pre_Elect	105	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
5	BI_BD_Valid	NA	Meet HTOL Schematics	01-Aug-2013	0	Camarillo	
6	HTRB_150°C_0072	105	Pass on Zero Fails	05-Aug-2013	0	Camarillo	
7	HTRB_150°C _0408	105	Pass on Zero Fails	21-Aug-2013	0	Camarillo	
8	HTS_Pre_Elect	77	Pass on Zero Fails	30-Jul-2013	0	Camarillo	
9	HTS_0168	77	Pass on Zero Fails	06-Aug-2013	0	Camarillo	
10	HTS_0500	77	Pass on Zero Fails	16-Aug-2013	0	Camarillo	
11	HTS_1000	77	Pass on Zero Fails	11-Sep-2013	0	Camarillo	
13	Pre_Elect_Precond	154	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
14	Precond_Temp_Cyc_5cyc	154	Pass on Zero Fails	31-Jul-2013	0	Camarillo	
15	Precond_HTS_24hr	154	Pass on Zero Fails	01-Aug-2013	0	Camarillo	
16	Precond_85/85_NoElec168hr	154	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
17	Precond_IR_Refl_Char	154	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
18	T/C_Pre_Elect	77	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
19	T/C_wPre_0250	77	Pass on Zero Fails	14-Aug-2013	0	Camarillo	
20	T/C_wPre_0500	77	Pass on Zero Fails	21-Aug-2013	0	Camarillo	
21	T/C_wPre_1000	77	Pass on Zero Fails	29-Aug-2013	0	Camarillo	
22	HAST Pre_Elect	77	Pass on Zero Fails	08-Aug-2013	0	Camarillo	
23	HAST_BD_Validation	N/A	Pass on Zero Fails	13-Aug-2013	0	Camarillo	
24	HAST_wPRE_0200	77	Pass on Zero Fails	23-Aug-2013	0	Camarillo	
25	Pack_Clos	0	0	11-Sep-2013		Camarillo	

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