

PRODUCT INFORMATION LETTER

PIL CRP/13/8135 Dated 04 Oct 2013

D2PAK Leads (Pins) Modification

Sales Type/product family label	See attached
Type of change	Product design change
Reason for change	The purpose of this change is to eradicate tin burr risks.
Description	This change concerns a modification of lead design of D2PAK packages at ST Shenzhen Back-End plant.
Forecasted date of implementation	31-Oct-2013
Forecasted date of samples for customer	27-Sep-2013
Forecasted date for STMicroelectronics change Qualification Plan results availability	27-Sep-2013
Involved ST facilities	ST Shenzhen Back-End plant

DOCUMENT APPROVAL

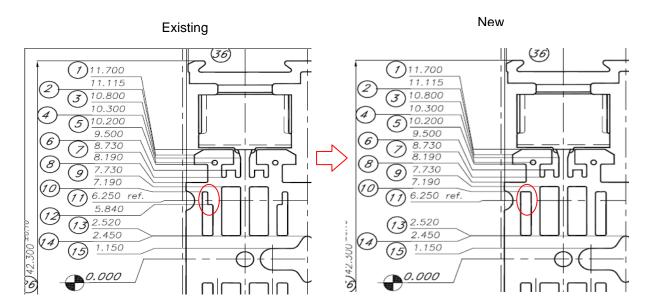
Name	Function
Livache, Veronique	Corporate Quality Manager
Low, Patrick	Process Owner

A7/.

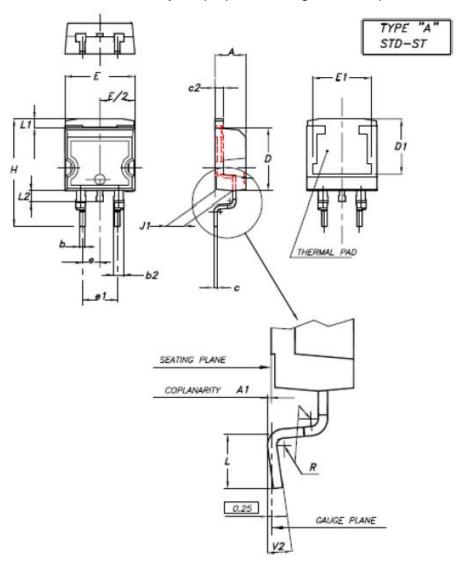
SHENZHEN -D2PAK Lead (Pins) Modification

WHAT:

This change concerns a modification of lead design of D2PAK packages at ST Shenzhen Back-End plant, without changing materials, people, method, facilities, process flow, and controls. Below is the comparison between new frame design and existing one.

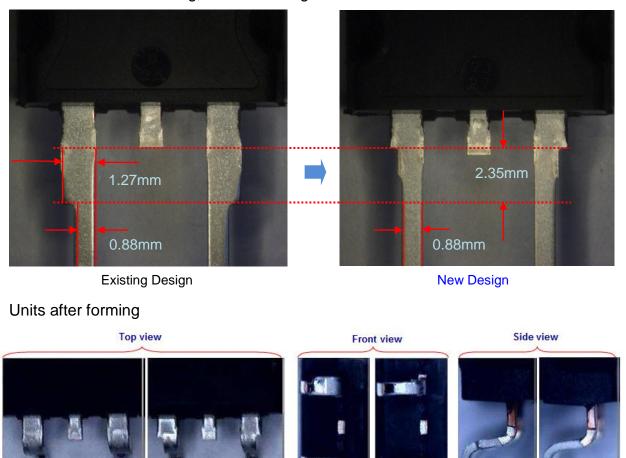


POA is not affected. Dimensions concerned by the proposed change are not specified in the POA



Visual aids to illustrate the change:

Units after dam bar cutting, before forming



WHY:

The purpose of this change is to eradicate tin burr risks.

New

Existing

Few tin burrs were observed on pin1 and pin3 on 3 units occasionally, due to actual lead frame design (see below pictures).

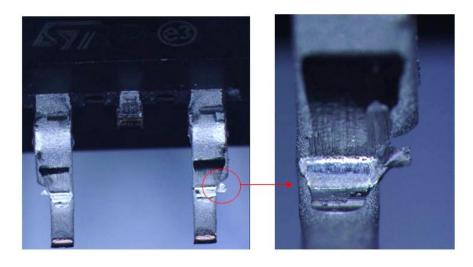
Existing

New

Existing

New

New lead frame design will prevent this risk. It is already implemented on the devices STB85NF55T4\$Z & STB85NF55T4\$Z1 since 2011, so far burrs problems are removed.



WHEN:

Proposed plan:

Phase 1 – Preparation, Risk assessment
 Phase 2 – Workability and Qualification
 Done (see Appendix 1)
 Done (see Appendix 2)

Phase 3 – Lead frame Conversion
 Schedule depend on Customer feedback

& Supplier Existing Stock

HOW:

This Lead (Pins) modification is following a working plan, divided in 3 major phases detailed below.

Phase 1 – Preparation and risk assessment

• Risk assessment (See appendix 1)

Phase 2 - Qualification Execute

• Qualification & Workability validation (see Qualification result in appendix 2)

Phase 3 - Lead Frame Conversion

- To start production with new lead frame design, under following conditions:
 - Ramp up with re-enforced control plan linked to identified risk (See Appendix 1 - risk assessment)

IMPACT OF THE CHANGE:

No impacts on Fit, Function of the parts with new lead frame design.

Appendix 1: Risk Assessment

#	Risks identified	Potential risk resulting from	Class	Considered Action
	Lead pitch too big	Forming force is not balanced	Medium	To modify the punching tool to shorten the lead protrusion. Specific control to put in place during ramp up phase
	Burr/metal filter/ flash on lead	Cutting tool worn-out and frame residue damage leads or stick on leads.	Low	
	Chip package	Jam between Turntable and track	Low	
Process &	Delamination	Punch dimension is out of spec	Low	
Quality	Incomplete cropping	Cutting tool worn-out	Low	
	Scratch on slug	Resin residue or broken lead in track	Low	
	Shift cutting	Mis-pitch in track	Low	
	Mechanical failures	At forming neck, mechanical stress can degrade the rigidity and performances of the leads	Low	Only cosmetic changes, no impact on product, which has already been verified by experience on other device
Supply	Tin burr issue re-occurrence	Part numbers forgotten during the change and still assembled with same old design lead frame	Medium	Reviewed all D2PAK frame part numbers
Chain	Delivery issue, parts delinquency, customer line down	Not enough lead frame in stock to satisfy the delivery plans	Low	As per division plans, order sufficient lead frames in advance to prepare the WIP

Appendix 2:

PHASE 2: CHANGE EXECUTION

Qualification lot validation: all results are within spec.

SOLDERABILITY TEST

>95% Reliability OPT Spec Limit Performed by Equipment N° Solderability tester Method dip+visual

202TL Supplier/model Q100 Sampling requirement : Min 15 units X 1 lot

Result: Dry Air Bake Steam Aging

	S.S: 15 Units													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	1
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	0
OK	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	ок	0

SnPb bath













PHYSICAL DIMENSIONS - Package Outline

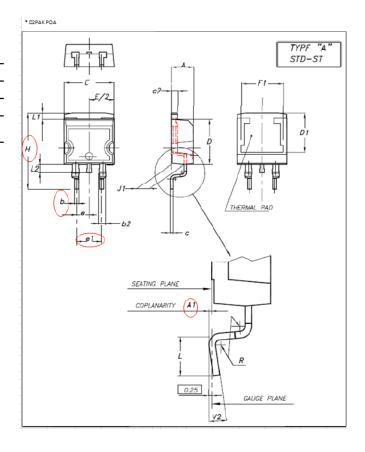
Reference Spec 0079457 Performed by Metho d Equipment Nº Supplier/model POA

Frm. Drawing

Q100 Sampling requirement : Min 10 units X 1 lot

Speci	fication	Data				
min.	max.	Min.	Max.	Mean	StDev	Cpk
0.030	0.230	0.130	0.140	0.136	0.005	6.280
0.700	0.930	0.800	0.820	0.810	0.006	6.740
4.880	5.280	5.140	5.160	5.150	0.005	8.810
15.000	15.850	15.440	15.500	15.460	0.011	11.530
	min. 0.030 0.700 4.880	0.030 0.230 0.700 0.930 4.880 5.280	min. max. Min. 0.030 0.230 0.130 0.700 0.930 0.800 4.880 5.280 5.140	min. max. Min. Max. 0.030 0.230 0.130 0.140 0.700 0.930 0.800 0.820 4.880 5.280 5.140 5.160	min. max. Min. Max. Mean 0.030 0.230 0.130 0.140 0.136 0.700 0.930 0.800 0.820 0.810 4.880 5.280 5.140 5.160 5.150	min. max. Min. Max. Mean StDev 0.030 0.230 0.130 0.140 0.136 0.005 0.700 0.930 0.800 0.820 0.810 0.006 4.880 5.280 5.140 5.160 5.150 0.005

All data are within spec. REMARKS



Workability validation: all results are within spec.

1. Burr visual result of 1st batch 6k sample

Group name	Sample size	Lead burr	Failure rate
Dummy group1 (New design)	3000	0	0%
Dummy group2 (New design)	3000	0	0%

^{*} From the result, zero burr was found on the 6k new designed lead frame

2. POA measurement result of these 2 group new design samples in Smart scope

			Lead standoff	Lead width	Lead pitch
	Sample size	Average	0.15	0.83	5.14
Dummy1 (New design)	30pcs	35	0.015	0.014	0.014
(item design)		СРК	5.69	7.1	9.79
Dummy2	Sample size	Average	0.14	0.84	5.14
	· 1	35	0.015	0.023	0.03
		СРК	5.6	4.06	4.54

3. Burr visual result of 2nd batch 15k samples

Group name	Sample size	Lead burr	Failure rate
Dummy group1 (New design)	5000	0	0%
Dummy group2 (New design)	5000	0	0%
Dummy group3 (New design)	5000	0	0%

4. POA measurement result of these 3 group samples in Smart scope

			Lead standoff	Lead width	Lead pitch
	sample size	AVG	0.14	0.81	5.15
Dummy1 (New design)	30 acc	35	0.015	0.017	0.015
	30 pcs	СРК	6.28	6.74	8.81
Dummy2	sample size	AVG	0.14	0.81	5.15
	30 pcs	35	0.015	0.016	0.017
(New design)		СРК	5.87	6.98	7.58
	sample size	AVG	0.13	0.81	5.15
Dummy3 (New design)	30 pcs	35	0.015	0.017	0.014
		СРК	6.55	6.27	9.26

¹⁵K dummy units were performed inspection on vision machine focused on ST,WI,PI, zero defect was found.

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Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List

Dear Customer,

STTH20R04G-TR STTH802G BUB941ZTT4

Please find below the list of Part Numbers you have ordered within the last two (2) years which are impacted by this change.

ST COMMERCIAL PRODUCT

CUSTOMER PART NUMBER

ACST1210-7GTR ACST1235-7GTR L7809CD2T-TR L7809CD2T-TR L7815ACD2T-TR L7815ACD2T-TR LD1085D2T-R LD1085D2T-R LD1085D2T33R LD1085D2T33R STB12NK80ZT4 STB12NK80ZT4 STB12NM50T4 STB12NM50T4 STB13007DT4 STB13N80K5 STB21NM60ND STB22NM60N STB24NM65N STB25NM60ND STB26NM60N STB28NM50N STB34NM60ND STB38N65M5 STB6N62K3 STB75NF75T4 STPS10150CG-TR STPS10150CG-TR STPS10L25G-TR STPS10L25G-TR STPS20L45CG-TR STPS20L45CG-TR STPS30150CG-TR STPS30150CG-TR STPS3045CG STPS3045CG STPS30H60CG-TR STPS30L30CG-TR STPS30L30CG-TR STPS40150CG-TR STPS40150CG-TR STPS40L45CG-TR STPS40L45CG-TR STPS40M80CG-TR STTH2002CG-TR STTH2002CG-TR

BUB941ZTT4



Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List (Contd.)

L7812ABD2T-TR L7824CD2T-TR L7824CD2T-TR

STB11N65M5

 STB140NF75T4
 STB140NF75T4

 STB14NK60ZT4
 STB14NK60ZT4

STB155N3LH6

STB19NF20

STB200NF04T4 STB200NF04T4

STB21N65M5

STB21NK50Z

STB5N62K3

 STB6NK90ZT4
 STB6NK90ZT4

 STB80NF03L-04T4
 STB80NF03L-04T4

 STB9NK60ZDT4
 STB9NK60ZDT4

STGB19NC60HDT4

STGB20NC60V

STPS20170CG-TR STPS20170CG-TR STPS41L30CG-TR STPS41L30CG-TR

STPSC10H065G-TR STTH2002G-TR

STTH2003CG-TR STTH8L06G-TR STTH8L06G-TR

VNB14NV04-E ACST610-8GTR

L7905ACD2T-TR
LD1086D2T33TR
LM217D2T-TR
LM317D2T-TR
LM317D2T-TR
LM317D2T-TR

MJB44H11T4 STB12NM50ND

STB140NF55T4 STB140NF55T4

STB15N80K5

STB16NF06LT4 STB16NF06LT4

STB18NM60ND



Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List (Contd.)

ST COMMERCIAL PRODUCT

CUSTOMER PART NUMBER

STB20NM50T4

STB20NM50FDT4

STB20NM50T4

STB23NM50N

STB24N60M2

STB270N4F3

 STB40NF10T4
 STB40NF10T4

 STB70NF03LT4
 STB70NF03LT4

 STB8NM60T4
 STB8NM60T4

STPS10H100CG-TR

STPS20M100SG-TR

STPS40170CG-TR STPS40170CG-TR

STTH1212G-TR

STTH12R06G-TR

STTH1512G

STTH30L06G-TR STTH30L06G-TR

STTH802G-TR

STTH810G-TR

ACST830-8GTR

L4940D2T12-TR L4940D2T12-TR

L4940D2T5-TR

 L7806CD2T-TR
 L7806CD2T-TR

 L7812CD2T-TR
 L7812CD2T-TR

 L7815CD2T-TR
 L7815CD2T-TR

 LD1086D2M33TR
 LD1086D2M33TR

 LD1086D2T50TR
 LD1086D2T50TR

 STB10NK60ZT4
 STB10NK60ZT4

STB11N52K3

STB120N4F6

STB13NK60ZT4 STB13NK60ZT4

STB155N3H6

STB15NM60ND STB20N65M5

STB20NM60D

STB20NM60T4 STB20NM60T4



Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List (Contd.)

ST COMMERCIAL PRODUCT

CUSTOMER PART NUMBER

L7912CD2T-TR

STB14NK50ZT4

STB21N90K5

STB2N62K3

STB40NF10LT4 STB40NF10LT4

STB45NF06T4

 STB60NF10T4
 STB60NF10T4

 STB9NK90Z
 STB9NK90Z

STGB18N40LZT4

STPS10170CG-TR

STPS1545CG-TR STPS20H100CG-TR STPS20H100CG-TR STPS20L15G-TR STPS20L15G-TR

STPS30170CG-TR STPS30SM100SG-TR

STPS8H100G STPS8H100G

STPSC606G-TR

STTH2002CG STTH2002CG STTH3002CG-TR STTH3002CG-TR

STTH30R03CG-TR

STTH803G-TR STTH803G-TR

STTH8R04G-TR

 STTH8R06G-TR
 STTH8R06G-TR

 L7805ABD2T-TR
 L7805ABD2T-TR

 L7806ABD2T-TR
 L7806ABD2T-TR

 L7808ABD2T-TR
 L7808ABD2T-TR

L7912CD2T-TR STB14NK50ZT4

STB18NM80 STB30NF10T4 STB30NF10T4

STB36NM60N STB40NF20 STB4N62K3

STB4NK60ZT4 STB4NK60ZT4

STB6N52K3 STB76NF80

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Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List (Contd.)

ST COMMERCIAL PRODUCT

CUSTOMER PART NUMBER

STB8N65M5

STGB10NC60KDT4

STGB20NB37LZT4 STGB20NB37LZT4

STGB6NC60HDT4

STPS20M60SG-TR

STTH10R04G-TR

STTH3002G-TR

STTH30R04G-TR

VNB20N07-E

 L7805CD2T-TR
 L7805CD2T-TR

 L7905CD2T-TR
 L7905CD2T-TR

 LD1085D2M33R
 LD1085D2M33R

 LD1085D2M33R
 LD1085D2M33R

 LD1086D2T18TR
 LD1086D2T18TR

 STB11NM60FDT4
 STB11NM60FDT4

 STB120NF10T4
 STB120NF10T4

STB13N60M2

STB20N95K5

STB27NM60ND

STB32N65M5

OTDO ANICEME

STB34N65M5

STB36NM60ND

STB55NF06LT4 STB55NF06LT4

STB5N52K3

 STB60NF06LT4
 STB60NF06LT4

 STB60NF06T4
 STB60NF06T4

 STB75NF75LT4
 STB75NF75LT4

 STB7NK80ZT4
 STB7NK80ZT4

 STB80NF55-06T4
 STB80NF55-06T4

 STB80NF55-0614
 STB80NF55-0614

 STB80NF55-08T4
 STB80NF55-08T4

 STGB10NB37LZT4
 STGB10NB37LZT4

 STGB7NC60HDT4
 STGB7NC60HDT4

STPS20200CG-TR

 STPS20H100CG
 STPS20H100CG

 STPS3030CG-TR
 STPS3030CG-TR



Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List (Contd.)

ST COMMERCIAL PRODUCT

STPS30L45CG-TR

STPSC8H065G-TR

STTH12R06G

STTH1602CG-TR

STTH20LCD06CG-TR

STTH30L06CG-TR STTH5R06G-TR

STTH806G-TR

VNB35N07TR-E

2STBN15D100

L7805ACD2T-TR L7808CD2T-TR

L7812ACD2T-TR STB11NK50ZT4

STB11NM80T4 STB13NM60N

STB14NM50N

STB150NF55T4

STB15N65M5

STB160N75F3

STB16N65M5

STB185N55F3

STB18N65M5

STB18NF30

STB23NM60ND

STB30NF20

STB31N65M5

STB42N65M5

STB80N20M5

STB95N4F3

STGB20NB41LZT4

STGB3NC120HDT4

STPS41H100CG-TR

STPS41L45CG-TR

CUSTOMER PART NUMBER

STPS30L45CG-TR

STTH12R06G

STTH1602CG-TR

STTH30L06CG-TR

STTH5R06G-TR

L7805ACD2T-TR L7808CD2T-TR

L7812ACD2T-TR STB11NK50ZT4

STB11NM80T4

STB150NF55T4

STGB20NB41LZT4

STPS41H100CG-TR STPS41L45CG-TR

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Customer Name: FUTURESTM

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Customer Part Number List (Contd.)

ST COMMERCIAL PRODUCT

CUSTOMER PART NUMBER

 STPS8H100G-TR
 STPS8H100G-TR

 STTH1002CG-TR
 STTH1002CG-TR

 STTH15L06G-TR
 STTH15L06G-TR

 STTH3002CG
 STTH3002CG

 VNB20N07TR-E
 STTH3002CG

 L7809ABD2T-TR
 L7809ABD2T-TR

 LD1085D2M-R
 LD1085D2M-R

 LD1086D2MTR
 LD1086D2MTR

 LD1086D2TTR
 LD1086D2TTR

STB18NF25 STB25N80K5 STB35N65M5

STB45N65M5

STB55NF06T4 STB55NF06T4

STB57N65M5

STB75NF20

STB80NF10T4 STB80NF10T4

STB8NM60D

STPS10L40CG-TR STPS10L40CG-TR

STPS16170CG-TR

STPS30L60CG-TR STPS41L60CG-TR STPS41L60CG-TR

STTH812G-TR

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PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change:

ST COMMERCIAL PRODUCT

2STBN15D100T4 ACST1210-7G ACST1210-7GTR ACST1235-7G ACST1235-7GTR ACST610-8G ACST610-8GTR ACST830-8GTR BUB941ZTT4 FERD30M45CG-TR BULB49DT4 BULB7216T4 L4940D2T12-TR L4940D2T5-TR L7805ABD2T-TR L7805CD2T-TR L7805ACD2T-TR L7806ABD2T-TR L7806CD2T-TR L7808ABD2T-TR L7808CD2T-TR L7809ABD2T-TR L7809CD2T-TR L7812ABD2T-TR L7812CD2T-TR L7812ACD2T-TR L7815ABD2T-TR L7815CD2T-TR L7815ACD2T-TR L7824CD2T-TR L7905ACD2T-TR L7905CD2T-TR L7912CD2T-TR LD1085D2M-R LD1085D2M18R LD1085D2M25R LD1085D2M33R LD1085D2T-R LD1085D2T33R LD1086D2M33TR LD1086D2MTR LD1086D2T12TR LD1086D2T33TR LD1086D2T50TR LD1086D2T18TR LM217D2T-TR LM317D2T-TR LD1086D2TTR MJB44H11T4 STB100NF03L-03T4 STB100NF04T4 STB10N65K3 STB10NK60ZT4 STB11N52K3 STB11N65M5 STB11NK50ZT4 STB11NM60FDT4 STB11NM60T4 STB11NM80T4 STB120N4F6 STB120N4LF6 STB120NF10T4 STB12NK80ZT4 STB12NM50ND STB13007DT4 STB12NM50T4 STB13N80K5 STB13NK60ZT4 STB13N60M2 STB13NM60N STB140NF55T4 STB140NF75T4 STB14NK50ZT4 STB14NK60ZT4 STB14NM50N STB150N3LH6 STB150NF55T4 STB155N3H6 STB155N3LH6 STB15N65M5 STB15N80K5 STB15NM60ND STB160N75F3 STB16N65M5 STB16NF06LT4 STB170NF04 STB185N55F3 STB18N55M5 STB18N60M2 STB18N65M5 STB18NF25 STB18NF30 STB18NM60ND STB18NM80 STB19NF20 STB200NF03T4 STB20N95K5 STB20N65M5 STB20NM50FDT4 STB20NM50T4 STB20NM60D STB20NM60T4 STB21N65M5 STB21N90K5 STB21NK50Z

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject : Public Products List (Contd.)

ST COMMERCIAL PRODUCT

STB21NM60ND STB22NM60N STB23NM50N STB23NM60ND STB24N60M2 STB24NM60N STB24NM65N STB25N80K5 STB25NM60ND STB26NM60N STB270N4F3 STB27NM60ND STB28N60M2 STB28NM50N STB28NM60ND STB2N62K3 STB30N65M5 STB30NF10T4 STB30NF20 STB30NF20L STB31N65M5 STB32N65M5 STB32NM50N STB33N60M2 STB34N65M5 STB34NM60N STB34NM60ND STB35N65M5 STB35NF10T4 STB36NM60N STB36NM60ND STB38N65M5 STB3NK60ZT4 STB40N60M2 STB40NF10LT4 STB40NF10T4 STB40NF20 STB42N65M5 STB45N65M5 STB45NF06T4 STB46NF30 STB4N62K3 STB55NF03LT4 STB55NF06LT4 STB4NK60ZT4 STB55NF06T4 STB57N65M5 STB5N52K3 STB5N62K3 STB5NK50ZT4 STB60NF06LT4 STB60NF06T4 STB60NF10T4 STB6N52K3 STB6N60M2 STB6N62K3 STB6NK60ZT4 STB70NF03LT4 STB70NF3LLT4 STB6NK90ZT4 STB75NF20 STB75NF75LT4 STB75NF75T4 STB76NF75 STB7ANM60N STB7NK80ZT4 STB80N20M5 STB80NF03L-04T4 STB80NF10T4 STB80NF55-06T STB80NF55-08T4 STB80NF55L-06T4 STB85NF55T4 STB8N65M5 STB8NM60D STB8NM60T4 STB95N4F3 STB9NK60ZDT4 STB9NK60ZT4 STB9NK80Z STB9NK90Z STGB10H60DF STGB10NB37LZ STGB10NB37LZT4 STGB10NB40LZT4 STGB10NC60HDT4 STGB10NC60KDT4 STGB14NC60KDT4 STGB15H60DF STGB18N40LZT4 STGB19NC60HDT4 STGB19NC60HT4 STGB19NC60KDT4 STGB20H60DF STGB20N40LZ STGB20NB37LZT4 STGB20NB41LZT4 STGB20NC60V STGB20V60DF STGB20V60F STGB30H60DF STGB30V60DF STGB30V60F STGB35N35LZT4

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject: Public Products List (Contd.)

ST COMMERCIAL PRODUCT

STGB3NC120HDT4 STGB7NC60HDT4 STPS10170CG-TR STPS10M80CG-TR STPS1545G STPS15SM80CG-TR STPS20150CG STPS20200CG-TR STPS20H100CG STPS20L25CG STPS20L60CGY-TR STPS20M60SG-TR STPS20SM60CG-TR STPS2545CG-TR STPS30170CG-TR STPS3045CG STPS30H60CG-TR STPS30L45CG-TR STPS30M60SG-TR STPS30SM60CG-TR STPS40150CG STPS40L45CG STPS40M60CG-TR STPS40SM100CG-TR STPS41H100CG STPS41L30CG-TR STPS5045SG-TR STPS8H100G-TR STPSC606G-TR STPSC8H065G-TR STTH10R04G-TR STTH12R06G-TR STTH1512GY-TR STTH16L06CG-TR

STTH2002CG-TR

STGB40V60F STGB8NC60KDT4 STPS10L25G-TR STPS10SM80CG-TR STPS1545G-TR STPS16170CG-TR STPS20150CG-TR STPS2045CG-TR STPS20H100CG-TR STPS20L45CG-TR STPS20M100SG-TR STPS20M80CG-TR STPS20SM60SG-TR STPS2545CGY-TR STPS3030CG STPS3045CG-TR STPS30H60CGY-TR STPS30L60CG-TR STPS30M80CG-TR STPS30SM60SG-TR STPS40150CG-TR STPS40L45CG-TR STPS40M80CG-TR STPS40SM60CG-TR STPS41H100CG-TR STPS41L45CG-TR STPS745G-TR STPSC1006G-TR STPSC6H065G-TR STTH1002CG-TR STTH1212G-TR STTH1302CG-TR STTH15L06G-TR STTH16R04CG-TR

STTH2002G-TR

STGB6NC60HDT4 STPS10150CG-TR STPS10L40CG-TR STPS1545CG-TR STPS15M80CG-TR STPS16H100CG-TR STPS20170CG-TR STPS2045CGY-TR STPS20L15G-TR STPS20L60CG-TR STPS20M60CG-TR STPS20SM100SG-TR STPS20SM80CG-TR STPS30150CG-TR STPS3030CG-TR STPS3045CGY-TR STPS30L30CG-TR STPS30M60CG-TR STPS30SM100SG-TR STPS30SM80CG-TR STPS40170CG-TR STPS40L45CGY-TR STPS40SM100CG STPS40SM80CG-TR STPS41H100CGY-TR STPS41L60CG-TR STPS8H100G STPSC10H065G-TR STPSC806G-TR STTH1002CGY-TR STTH12R06G STTH1512G STTH1602CG-TR STTH2002CG

PIL Title: D2PAK Leads (Pins) Modification

PIL Reference : CRP/13/8135 PIL Created on : 30-SEP-2013

Subject : Public Products List (Contd.)

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