

Product Change Notification

(Notification - P1801008-DIG)

(PC-WRP-A001C/E)

January 31, 2018

To: *Our Valued Digi-Key, Inc. Customer*

Overview: The purpose of this notification is to communicate product change of select Renesas Electronics America, Inc. (REA) devices. There is no change to the part number, electrical characteristics, or product reliability.

This notification announces a standardization of JEDEC trays and carrier tapes. The following is a list of the changes. Please see the PCN notes and appendices for the specific change & additional details affecting your specific device.

1. Change in the specification for the carrier tape.
2. Unification of the model of the JEDEC tray.
3. Unification of the storing order of IC in the JEDEC tray.
4. Unification of numbers of strapping band for JEDEC trays.

Affected Products: A review of our records indicates the attached list (see Appendix 5) of products may affected your company.

Part numbers given in this list are for active part numbers in REA database at the time of this notification.

Key Dates:

Shipments from REA of products using the new specification begins. Cross shipments between the original and new specification may continue for a period of time.
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April 1st, 2018

Response: No response is required. REA will consider this notification approved 30 days after its issue. If you anticipate volumes beyond your regular rate prior to the transition date, please contact your REA sales representative with a forecast of your requirements.

Please contact your REA sales representative for any questions or comments.

Thank you for your attention.

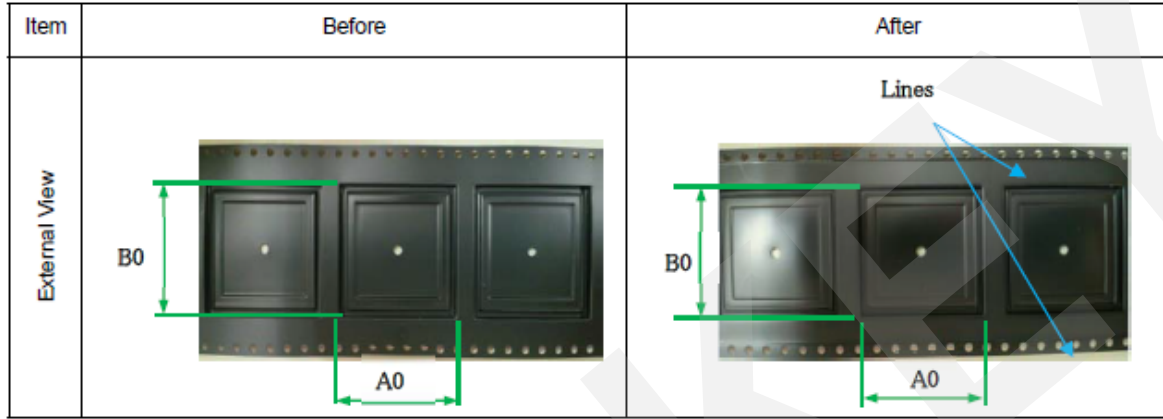
Sincerely,

Renesas Electronics America, Inc.

Appendix 1:

1. Change the specification of the carrier tape.

The pocket dimension of designated products shall be changed as such; however, there is no change to a stored quantity, a tape width, and a pocket pitch. The additional information is written in a red letter.



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Applied Package	Applied Products	Before			After		
		Old tape model	A0/B0 (mm)	Top seat position (mm)	New tape model	A0/B0 (mm)	Top seat position (mm)
LQFP 7x7	Ref. to APPENDIX 1-A	E16x12-B1CA,	9.95	0	E1612Q07RA	9.50	0
		E16x12-DFCA,	9.95	0			
		TE1612-34P,	9.5/10.8	0			
		TE1612-32P8U	9.95	0			
		MTE1612H-QFP(FP)-7X7	10.36	0.25			
LQFP 10x10	Ref. to APPENDIX 1-B	E24x16-B2CA	13.45	0	E2416Q10RA	12.50	0
		MTE2416H-64P8Q-A	13.00	0			
LQFP 12x12	Ref. to APPENDIX 1-C	E24*20-B3CA	15.45	0	E2420Q12RA	14.50	0
		MTE2420H-80P8Q-A	15.00	0			
LQFP 14x14	Ref. to APPENDIX 1-D	E24*24-AKCA	16.50	0	E2424Q14RA	16.50	0
		E24*24-DGCA	16.50	0			
LQFP 16x16	Ref. to APPENDIX 1-E	TE3224-17P	19.45	0	E3224Q16RA	18.50	0
LQFP 20x20	Ref. to APPENDIX 1-F	E44*32-B5CA	23.45	0	E4432Q20RA	22.50	0
		MTE4432H-144P8Q-A	23.3	0			
LQFP 24x24	Ref. to APPENDIX 1-G	E44*32-AZCA	27.45	0	E4432Q24RA	26.50	0
		TE4432-8P	27.45	0			

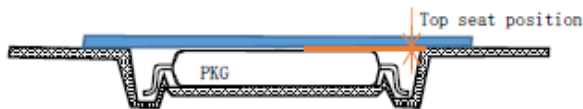


Fig 1. Cross section of carrier tape

Appendix 2:

2. Unification of the JEDEC Tray for LQFP Package.

The products shipped by an old model tray shall be changed to a new model tray. A JEDEC specified size (External size, Pocket Pitch, etc.) shall not be changed by this unification, but following items are subject to change.

- (1) Tray model and name are unified.
- (2) The pocket depth may be differed between old and new trays. (See following table)
- (3) The maximum heat proof temperature indication on the tray shall be conformed to the JEDEC specification. It is not changed to heat characteristics, resin, and manufacture method of trays.

Even if the tray model name are same, the details of design may be different such as pocket hole, rib, frame, and recycle mark.

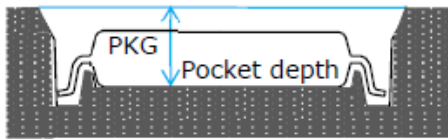


Fig.2: Tray pocket cross section

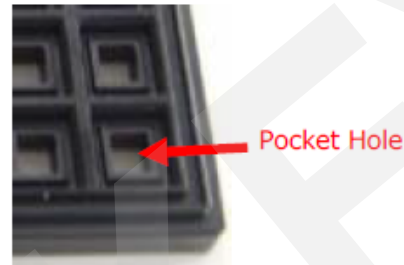


Fig.3: Pocket Hole



Fig.4 Heat Proof Temp. Indication

Subject PKG Group	Subject Products name	Before			After		
		Old Tray name	Pocket depth (mm)	Heat Proof Temp. on tray end tab	Subject New Tray	Pocket depth (mm)	Heat Proof Temp. on tray end tab
LQFP 7x7	Ref. to Appendix 2-A	L196-56	2.0	150°C MAX	LQFP07x07x1.4	2.0	135°C MAX
LQFP 10x10	Ref. to Appendix 2-B	L196-49	2.0	150°C MAX	LQFP10x10x1.4	1.5	135°C MAX
LQFP 12x12	Ref. to Appendix 2-C	JHB-121214	1.5	150°C MAX	LQFP12x12x1.4	2.0	135°C MAX
LQFP 14x14	Ref. to Appendix 2-D	L196-05	1.5	150°C MAX	TQFP14x14x1.4	2.0	150°C MAX
LQFP 16x16	Ref. to Appendix 2-E	PTB83C	1.8	150°C MAX	LQFP16x16x1.4	1.8	135°C MAX
LQFP 20x20	Ref. to Appendix 2-F	L196-65A	2.0	150°C MAX	LQFP20x20x1.4	1.6	135°C MAX
LQFP 24x24	Ref. to Appendix 2-G	L196-06A	1.5	150°C MAX	LQFP24x24x1.4	1.5	135°C MAX

Supplemental information about the heat proof temperature indication on end tab section of tray.



150°C MAX: It is satisfy the Renesas baking criteria (150°C, 4hrs), and JEDEC baking criteria (135°C, 48hrs).

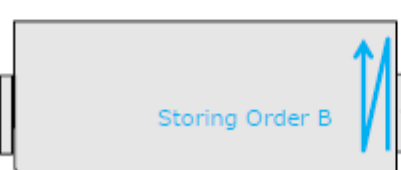
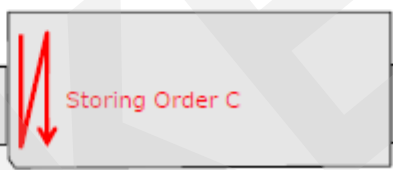
135°C MAX: It is satisfy the JEDEC baking criteria (135°C, 48hrs), and Renesas baking criteria (150°C, 4hrs).

Appendix 3:

3. Unification of the storing order of IC in the JEDEC Tray

The package storing order to JEDEC tray shall be unified to one direction (Storing Order C) from a plural direction.

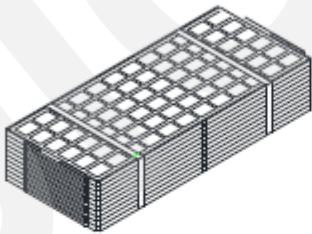

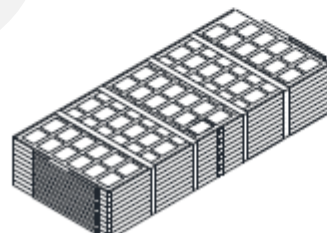
Item	Before	After
Storing Order A in the tray		
Applicable products	APPENDIX 3-A	

Item	Before	After
Storing Order B in the tray		
Applicable products	APPENDIX 3-B	

Appendix 4:

4. Unification of the strapping band for JEDEC Tray

The numbers of strapping band used to tight the JEDEC Tray shall be unified to three bands.

Item	Before	After
Two Strapping Bands		 ※Several color of bands are available.
Four Strapping Bands		
Applicable Products	APPENDIX 4	

Appendix 5: Affected Part Number List

P1801008 REA Part List for Digi-Key			
Part Number	Notes	Part Number	Notes
D12321VF25V	See Appendix #4	M3087BFKBGP#U5	See Appendix #4
D12390TE20V	See Appendix #4	M3087BFLAGP#U5	See Appendix #4
DF2117RVLP20DHV	See Appendix #4	M3087BFLBGP#U3	See Appendix #4
DF2145BTE20V	See Appendix #4	M3087BFLBGP#U5	See Appendix #4
DF2211CUFP24V	See Appendix #4	M3087BFLGP#U3	See Appendix #4
DF2319CVTE25V	See Appendix #4	M308A0SGP#U5	See Appendix #2D
DF2328VF25IV	See Appendix #4	M308A5SGP#U5	See Appendix #4
DF2638WF20JV	See Appendix #4	R1LV0408DSA-5SI#B0	See Appendix #4
DF3024FBL25V	See Appendix #4	R1LV0408DSA-7LI#B0	See Appendix #4
DF36057FZJV	See Appendix #2B & #4	R1LV0408DSB-5SI#B0	See Appendix #4
DF38099FP4V	See Appendix #2D & #4	R1LV0808ASB-5SI#B0	See Appendix #4
DF61653N50FTV	See Appendix #4	R1LV0816ASA-5SI#B0	See Appendix #4
DF61654W50FTV	See Appendix #4	R1LV0816ASB-5SI#B0	See Appendix #4
DF61657CN35FTV	See Appendix #4	R1LV1616RBG-5SI#B0	See Appendix #4
DF61664W50FPV	See Appendix #2F & #4	R1LV1616RSD-5SI#B0	See Appendix #4
DF70855AN80FPV	See Appendix #2F & #4	R1LV5256ESA-7SR#B0	See Appendix #4
DF71364AD80FPV	See Appendix #2D & #4	R1WV3216RBG-7SI#B0	See Appendix #4
DF72115D160FPV	See Appendix #2F & #4	R2A25108KFP#V5	See Appendix #4
DN3687GFPV	See Appendix #4	R4F24249NVFPV	See Appendix #2D & #4
M30260F3AGP#U5A	See Appendix #3B & #4	R4F24268NVFQV	See Appendix #2F & #4
M30260F6AGP#U5A	See Appendix #3B & #4	R4F24269NVFQV	See Appendix #2F & #4
M30260F8AGP#U5A	See Appendix #3B & #4	R4F24279NVFQU	See Appendix #2F & #4
M30280FAHP#U9B	See Appendix #4	R4F24568NVFQV	See Appendix #2F & #4
M30281FCHP#U7B	See Appendix #4	R4F24568NVRQV	See Appendix #2F & #4
M30290FCHP#U3A	See Appendix #4	R4F24569DVRQV	See Appendix #2F & #4
M30290FCHP#U7A	See Appendix #4	R4F2462VFAQ34V	See Appendix #2F & #4
M30291FCHP#U3A	See Appendix #4	R5F10E8AALA#U0	See Appendix #3A
M30291FCHP#U5A	See Appendix #4	R5F10E8EALA#U0	See Appendix #3A
M30291FCHP#U7A	See Appendix #4	R5F10EGCAF#V0	See Appendix #3A
M30620FCFP#U3C	See Appendix #4	R5F10ELEAF#V0	See Appendix #3A
M30620FCFP#U5C	See Appendix #4	R5F10JBCANA#U0	See Appendix #3A
M30620FCFP#U7C	See Appendix #4	R5F10NLGDFB#30	See Appendix #2B
M30620FCPGP#U7C	See Appendix #4	R5F10NLGDFB#50	See Appendix #1B
M30622F8PFP#U5C	See Appendix #4	R5F10NMEDFB#50	See Appendix #1C
M30624FGPFP#U3C	See Appendix #4	R5F10PPJLFB#V5	See Appendix #3A
M30624FGPFP#U5C	See Appendix #4	R5F10RFAAFP#V0	See Appendix #3A
M30624FGPFP#U7C	See Appendix #4	R5F10RFCAFP#V0	See Appendix #3A
M30626FHFP#U3C	See Appendix #4	R5F10RG8AFB#V0	See Appendix #3A
M30626FHFP#U5C	See Appendix #4	R5F10RGAAF#V0	See Appendix #3A
M30626FHFP#U9C	See Appendix #4	R5F10RGCAF#V0	See Appendix #3A
M30627FJPGP#U9C	See Appendix #4	R5F10RLAAF#V0	See Appendix #3A
M3062LFGPFP#U5C	See Appendix #4	R5F10RLAANB#U0	See Appendix #3A
M30873FHAGP#U3	See Appendix #4	R5F10RLCAFA#V0	See Appendix #3A
M30873FHBGP#U3	See Appendix #4	R5F10RLCAF#V0	See Appendix #3A
M30873FHBGP#U5	See Appendix #2D	R5F10WLEAFA#30	See Appendix #3A
M30876FJAGP#U5	See Appendix #4	R5F10WMCAFA#30	See Appendix #3A
M30876FJBGP#U3	See Appendix #4	R5F10Y16ASP#V0	See Appendix #3A
M30879FKGP#U3	See Appendix #4	R5F10Y17ASP#30	See Appendix #3A
M30879FLAGP#U3	See Appendix #4	R5F10Y44ASP#30	See Appendix #3A
M30879FLGP#U3	See Appendix #4	R5F10Y46ASP#30	See Appendix #3A

Appendix 5 (cont.): Affected Part Number List

P1801008 REA Part List for Digi-Key			
Part Number	Notes	Part Number	Notes
R5F10Y47ASP#30	See Appendix #3A	R5F51305ADNE#U0	See Appendix #4
R5F117AAGSP#30	See Appendix #3A	R5F52106BDF#V0	See Appendix #2D & #4
R5F117BCGNA#20	See Appendix #3A	R5F52107BDLK#U0	See Appendix #4
R5F11AGGANB#20	See Appendix #4	R5F52108BDLK#U0	See Appendix #4
R5F11AGJANB#20	See Appendix #4	R5F52108CDFM#V0	See Appendix #2B & #4
R5F11EFAAFP#30	See Appendix #3A	R5F5210ABDLJ#U0	See Appendix #4
R5F21114DFP#U0	See Appendix #2A	R5F5210BBDLJ#U0	See Appendix #4
R5F21114FP#U0	See Appendix #2A	R5F52306ADFP#30	See Appendix #2D
R5F21122DFP#U0	See Appendix #2A	R5F52316CDFL#30	See Appendix #2A
R5F21134FP#U0	See Appendix #2A	R5F52316CDFM#30	See Appendix #2B
R5F21216JFP#U1	See Appendix #4	R5F52316CDFP#30	See Appendix #2D
R5F21218JFP#U1	See Appendix #4	R5F52318ADFL#30	See Appendix #2A
R5F2121CJFP#U0	See Appendix #4	R5F52318ADFP#30	See Appendix #2D
R5F21226DFP#U0	See Appendix #4	R5F52318ADNE#U0	See Appendix #4
R5F21226JFP#U1	See Appendix #4	R5F524TAADFN#31	See Appendix #2C
R5F2122CJFP#U0	See Appendix #4	R5F524TEADFP#31	See Appendix #2D
R5F21236DFP#U0	See Appendix #4	R5F524UEADFB#30	See Appendix #2F
R5F21236JFP#U1	See Appendix #4	R5F524UEADFP#30	See Appendix #2D
R5F21237DFP#U0	See Appendix #4	R5F56104WDBG#U0	See Appendix #4
R5F21238DFP#U0	See Appendix #4	R5F56107WDBG#U0	See Appendix #4
R5F21238JFP#U1	See Appendix #4	R5F56217BDLD#U0	See Appendix #4
R5F21238KFP#U1	See Appendix #4	R5F56217BDLE#U0	See Appendix #4
R5F2123AJFP#U0	See Appendix #4	R5F56218BDLD#U0	See Appendix #4
R5F2123AKFP#U0	See Appendix #4	R5F56218BDLE#U0	See Appendix #4
R5F2123CJFP#U0	See Appendix #4	R5F562G7ADFP#V3	See Appendix #2D & #4
R5F2123CKFP#U0	See Appendix #4	R5F562G7DDFP#V3	See Appendix #2D & #4
R5F21274JFP#U0	See Appendix #4	R5F562GADDFP#V3	See Appendix #2D & #4
R5F21276KFP#U0	See Appendix #4	R5F562N7BDBG#U0	See Appendix #4
R5F212F4NFP#U0	See Appendix #2A	R5F562N8BDLE#U0	See Appendix #4
R5F21346CNFP#U0	See Appendix #2A	R5F562T6ADFM#V1	See Appendix #2B
R5F213J6CNP#U0	See Appendix #4	R5F562T6BDFM#V3	See Appendix #2B & #4
R5F363AKDFA#U0	See Appendix #3B & #4	R5F562T6DDFM#V3	See Appendix #2B
R5F363AMNFA#U0	See Appendix #4	R5F562T7ADFF#V3	See Appendix #4
R5F3640DDFB#U0	See Appendix #2D	R5F562T7DDFM#V3	See Appendix #2B & #4
R5F364A6DFA#U0	See Appendix #4	R5F562TAADFH#V3	See Appendix #2F & #4
R5F364AENFA#U0	See Appendix #4	R5F562TABDFK#V3	See Appendix #2D & #4
R5F364AENFB#U0	See Appendix #2D	R5F562TADDFP#V3	See Appendix #2D
R5F3650ENFA#U0	See Appendix #4	R5F562TAEDFF#V3	See Appendix #4
R5F3650KNFA#U0	See Appendix #4	R5F562TAEDFM#V3	See Appendix #2B & #4
R5F3650NDF#U0	See Appendix #4	R5F5630DCDFC#V0	See Appendix #4
R5F3651MDFC#U0	See Appendix #4	R5F5630EDDFC#V0	See Appendix #4
R5F3651NDFC#U0	See Appendix #4	R5F56316DDFC#V0	See Appendix #4
R5F3651RDFC#U0	See Appendix #4	R5F56318CDLK#U0	See Appendix #4
R5F36CAMDFB#U0	See Appendix #2D	R5F56318SDFC#V0	See Appendix #2G & #4
R5F51113ADLM#UA	See Appendix #3A	R5F5631BCDFC#V0	See Appendix #4
R5F51113ADNF#UA	See Appendix #3A	R5F5631BDDFC#V0	See Appendix #4
R5F51115ADLF#UA	See Appendix #3A	R5F5631EDDFC#V0	See Appendix #4
R5F51116ADNE#UA	See Appendix #3A	R5F5631FDDFC#V0	See Appendix #4
R5F51118ADNE#UA	See Appendix #3A	R5F5631MFDLH#U0	See Appendix #4
R5F51135ADLJ#2A	See Appendix #4	R5F5631PFDLH#U0	See Appendix #4

Appendix 5 (cont.): Affected Part Number List

P1801008 REA Part List for Digi-Key			
Part Number	Notes	Part Number	Notes
R5F563NACDLJ#U0	See Appendix #4	R5F571MJCDFB#V0	See Appendix #2F
R5F563NBCDFB#V0	See Appendix #2F & #4	R5F571MLHDBG#20	See Appendix #4
R5F563NBCDFC#V0	See Appendix #4	R5F61622N50FPV	See Appendix #2F & #4
R5F563NEDDFB#V0	See Appendix #2F & #4	R5F61652N50FPV	See Appendix #2D & #4
R5F563NEDDFC#V0	See Appendix #4	R5F61653RN50FPV	See Appendix #2D & #4
R5F563NFDDFC#V0	See Appendix #4	R5F61655N50FPV	See Appendix #2D & #4
R5F563NFDGFB#V0	See Appendix #2F	R5F61662N50FPV	See Appendix #2F & #4
R5F563TEBDA#V0	See Appendix #2E & #4	R5F61662N50LGV	See Appendix #4
R5F564MLCDBG#21	See Appendix #4	R5F61663RN50FPV	See Appendix #2F & #4
R5F564MLCDLJ#21	See Appendix #4	R5F61665N50FPV	See Appendix #2F & #4
R5F564MLCDLK#21	See Appendix #4	R5F61668RD50FPV	See Appendix #2F & #4
R5F564MLDDBG#21	See Appendix #4	R5F61668RN50FPV	See Appendix #4
R5F564MLDDLK#21	See Appendix #4	R5F6411EDFN#UA	See Appendix #4
R5F564MLHDFC#V1	See Appendix #4	R5F6411FDFN#UA	See Appendix #4
R5F56514ADFB#30	See Appendix #2F	R5F64189DFB#UB	See Appendix #2D
R5F56514ADFP#30	See Appendix #2D	R5F72165ADFP#V1	See Appendix #2G & #4
R5F56514BDFP#30	See Appendix #2D	R5F72167ADFA#V1	See Appendix #2F & #4
R5F56517ADFB#30	See Appendix #2F	R5F72167ADFP#V1	See Appendix #2G & #4
R5F56517ADFP#30	See Appendix #2D	R5F72375BDFP#V0	See Appendix #2E & #4
R5F56517BDFB#30	See Appendix #2F	R5F72855D100FP#U2	See Appendix #2F & #4
R5F56517BDFP#30	See Appendix #2D	R5F72856N100FP#U2	See Appendix #2F & #4
R5F56519ADFB#30	See Appendix #2F	R5F72865D100FP#U2	See Appendix #2G & #4
R5F56519ADFP#30	See Appendix #2D	R5F72865N100FP#U2	See Appendix #2G & #4
R5F56519BDFB#30	See Appendix #2F	R5F72867N100FP#U2	See Appendix #2G & #4
R5F56519BDFP#30	See Appendix #2D	R5S72620P144FP#UZ	See Appendix #2G & #4
R5F5651CDDBG#20	See Appendix #4	R5S72620W144FP#U0	See Appendix #2G & #4
R5F5651CDDFB#30	See Appendix #2F	R5S72621P144FP#UZ	See Appendix #2G & #4
R5F5651CDDFC#30	See Appendix #2G & #4	R5S72624W144FP#U0	See Appendix #2G & #4
R5F5651CDDFP#30	See Appendix #2D	R5S72660W144FP#V0	See Appendix #2F & #4
R5F5651EDDFB#30	See Appendix #2F	R5S726B0D216FP#V0	See Appendix #2F & #4
R5F5651EDDFC#30	See Appendix #2G & #4	R7FS124772A01CLM#ACO	See Appendix #3A
R5F565N4BDFB#30	See Appendix #2F	R7FS124773A01CFL#AA0	See Appendix #2A
R5F565N4BDFP#30	See Appendix #2D	R7FS124773A01CFL#AA1	See Appendix #2A
R5F565N7ADFB#30	See Appendix #2F	R7FS124773A01CFM#AA0	See Appendix #2B
R5F565N7BDFB#30	See Appendix #2F	R7FS3A17C3A01CFB#AA0	See Appendix #2F
R5F565N7BDFP#30	See Appendix #2D	R7FS3A37A3A01CNB#ACO	See Appendix #4
R5F565N9ADFP#30	See Appendix #2D	R7FS3A77C3A01CFB#AA1	See Appendix #2F
R5F565N9BDFB#30	See Appendix #2F	R7FS3A77C3A01CFM#AA1	See Appendix #2B
R5F565N9BDFP#30	See Appendix #2D	R7FS3A77C3A01CFP#AA1	See Appendix #2D
R5F565NCDDBG#20	See Appendix #4	R7FS5D57C3A01CFP#AA0	See Appendix #2D
R5F565NCDDFB#30	See Appendix #2F	R7FS7G27H2A01CBD#ACO	See Appendix #3B & #4
R5F565NCDDFC#30	See Appendix #2G & #4	R7FS7G27H2A01CBG#ACO	See Appendix #4
R5F565NCDDFP#30	See Appendix #2D	R7S721000VCBG#ACO	See Appendix #4
R5F565NEDDBG#20	See Appendix #4	R7S721010VCBG#ACO	See Appendix #4
R5F565NEDDFC#30	See Appendix #2G & #4	R7S721011VCBG#ACO	See Appendix #4
R5F565NEDDLJ#20	See Appendix #4	R7S721020VCBG#ACO	See Appendix #4
R5F565NEDDLK#20	See Appendix #4	R7S721020VCFP#AA0	See Appendix #2G & #4
R5F565NEDDLK#20	See Appendix #4	R7S721020VCFP#AA1	See Appendix #2G & #4
R5F571MFCDLJ#20	See Appendix #4	R8A66593FP#R1	See Appendix #2B & #4
R5F571MFDDLJ#20	See Appendix #4	R8A77800BDBGV	See Appendix #4

Appendix 5 (cont.): Affected Part Number List

P1801008 REA Part List for Digi-Key			
Part Number	Notes	Part Number	Notes
R8A77800BNBGV	See Appendix #4	UPD78F0578MC-CAB-AX	See Appendix #3A
UPD70F3762GC-UEU-AX	See Appendix #2D	UPD78F0588GA-GAM-AX	See Appendix #3A
UPD70F3794GC-UEU-AX	See Appendix #2D	UPD78F0752MA-FAA-AX	See Appendix #3A
UPD78F0078GC-8BS-A	See Appendix #3A	UPD78F0884GA(A2)-GAM-AX	See Appendix #3A
UPD78F0338GC-9EB-A	See Appendix #3A	UPD78F0886AGAA-GAM-G	See Appendix #3A
UPD78F0500MC-5A4-A	See Appendix #3A	UPD78F9116BMC-5A4-A	See Appendix #3A
UPD78F0515GA(A)-GAM-AX	See Appendix #3A	UPD78F9200MA-CAC-A	See Appendix #3A
UPD78F0546AGK-GAK-AX	See Appendix #3A		