


PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	CRP/19/11478	
1.3 Title of PCI	PRODUCT ALERT / Early Notification - DISCONTINUATION OF CURRENT MOLD COMPOUNDS (SAMSUNG SDI) FOR THROUGH HOLE PACKAGES	
1.4 Product Category	Refer to FG list	
1.5 Issue date	2019-04-08	

2. PCI Team

2.1 Contact supplier	
2.1.1 Name	KELLY MURPHY
2.1.2 Phone	
2.1.3 Email	kelly.murphy@st.com
2.2 Change responsibility	
2.2.1 Process Owner	Chiara ZACCHERINI
2.1.2 Corporate Quality Manager	Gerard PETIT

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	New direct material part number (same supplier, different supplier or new supplier), Mold compound	Several locations

4. Description of change

	Old	New
4.1 Description	Samsung SDI product termination of the following references of molding compound for through hole packages SG8200DTA SG8200DTB / 1 SG-8100G / GS / GSA SI-7200DXC SG8100GSP SI-7200DX2 ST-7100HF	Replacement of current mold compounds with alternative material. ST is already proceeding with new resins evaluation and qualification, to guarantee adequate products continuity.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Product Alert / Early Notification The change will be notified to customers by PCN sent by product divisions from Q2 2019 depending on the products and packages families.	

5. Reason / motivation for change

5.1 Motivation	Replacement of current mold compounds with alternative material. ST is already proceeding with new resins evaluation and qualification, to guarantee adequate products continuity.
5.2 Customer Benefit	SERVICE CONTINUITY

6. Marking of parts / traceability of change

6.1 Description	Not applicable at this stage
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7. Timing / schedule

7.1 Date of qualification results	2019-04-05
7.2 Intended start of delivery	2019-04-05
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description	
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8.2 Qualification report and qualification results	In progress	Issue Date	
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9. Attachments (additional documentations)			
11478 Public product.pdf			
11478 Early notification draft v4.pdf			

10. Affected parts		
10.1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	2SD1047	
	2ST31A	
	2STW100	
	2STW200	
ACS108-6SA	ACS108-6SA	
ACS108-6SA-AP	ACS108-6SA-AP	
	ACST1010-7T	
	ACST1035-7T	
	ACST610-8T	
	ACST830-8T	
AVS1ACP08	AVS1ACP08	
BD912	BD912	
BDW93C	BDW93C	
BDW94C	BDW94C	
	BDX53C	
BTB04-600SL	BTB04-600SL	
BU931P	BU931P	
BU931T	BU931T	
	BUL128D-B	
BUL138	BUL138	
BUL216	BUL216	
BUL38D	BUL38D	
BUT30V	BUT30V	
BUTW92	BUTW92	
D44H11	D44H11	
D44H8	D44H8	
D45H11	D45H11	
	ESM3030DV	
	FERD20H60CTS	
	FERD20L60CTS	
	FERD20M60SR	
	FERD20M60ST	
	FERD20S100SH	
	FERD20S100STS	
	FERD30H100STS	
	FERD30H60CTS	
	FERD30L60CTS	
	FERD40L60CTS	
	FERD40M45CT	
	FERD40U45CT	
	FERD60M45CT	
	FERD60U45CT	

IRF630	IRF630	
L200CV	L200CV	
L4931CZ33-AP	L4931CZ33-AP	
L4931CZ50-AP	L4931CZ50-AP	
L4940V5	L4940V5	
L4941BV	L4941BV	
L4960	L4960	
L4962E/A	L4962E/A	
L4971	L4971	
L4978	L4978	
	L6385E	
	L6387E	
	L6388E	
L6561	L6561	
	L6562AN	
L6565N	L6565N	
L6569	L6569	
L7805ABV	L7805ABV	
L7805ACV	L7805ACV	
	L7805CV-DG	
L7806CV	L7806CV	
	L7806CV-DG	
L7808ABV	L7808ABV	
L7808ACV	L7808ACV	
L7808CV	L7808CV	
L7809CV	L7809CV	
L7812ABV	L7812ABV	
	L7812ABV-DG	
L7812ACV	L7812ACV	
L7812CV	L7812CV	
	L7812CV-DG	
L7815ABV	L7815ABV	
L7815ACV	L7815ACV	
	L7815ACV-DG	
L7815CV	L7815CV	
	L7815CV-DG	
L7818CV	L7818CV	
	L7818CV-DG	
L7824ACV	L7824ACV	
L7824CV	L7824CV	
L78L05ABZ	L78L05ABZ	
L78L05ABZ-AP	L78L05ABZ-AP	
L78L05ABZ-TR	L78L05ABZ-TR	
L78L05ACZ	L78L05ACZ	
L78L05ACZ-AP	L78L05ACZ-AP	
L78L05ACZTR	L78L05ACZTR	
L78L06ABZ	L78L06ABZ	
L78L08ABZ-AP	L78L08ABZ-AP	
L78L08ACZ	L78L08ACZ	
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L78L09ACZ-AP	L78L09ACZ-AP	

L78L09ACZ-TR	L78L09ACZ-TR	
L78L12ACZ	L78L12ACZ	
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L78L15ABZ-AP	L78L15ABZ-AP	
L78L15ACZ	L78L15ACZ	
L78L24ACZ-AP	L78L24ACZ-AP	
L78L33ABZ-AP	L78L33ABZ-AP	
L78L33ACZ	L78L33ACZ	
L78L33ACZTR	L78L33ACZTR	
	L78M05ABV	
L78M09CV	L78M09CV	
L78M12CV	L78M12CV	
L78M15CV	L78M15CV	
L78M24CV	L78M24CV	
L78S05CV	L78S05CV	
L78S12CV	L78S12CV	
L78S15CV	L78S15CV	
L78S18CV	L78S18CV	
L78S24CV	L78S24CV	
L7905ACV	L7905ACV	
L7905CV	L7905CV	
	L7905CV-DG	
L7912CV	L7912CV	
L7915CV	L7915CV	
	L7915CV-DG	
L79L05ACZ	L79L05ACZ	
	L79L05ACZ-TR	
L79L08ACZ-AP	L79L08ACZ-AP	
LD1084V	LD1084V	
LD1085V	LD1085V	
LD1085V50	LD1085V50	
	LD1086V33-DG	
LD1117AV33	LD1117AV33	
LD1117V	LD1117V	
	LD1117V-DG	
LD1117V33	LD1117V33	
LD1117V33C	LD1117V33C	
LD1117V50	LD1117V50	
LE33CZ-TR	LE33CZ-TR	
LE50ABZ-AP	LE50ABZ-AP	
LF33ABV	LF33ABV	
LF33CV	LF33CV	
LF50CV	LF50CV	
LF90CV	LF90CV	
LM217LZ-TR	LM217LZ-TR	
LM217T	LM217T	
	LM217T-DG	
LM235Z	LM235Z	
LM2931AZ50R	LM2931AZ50R	
LM317LZ-AP	LM317LZ-AP	
LM317LZ-TR	LM317LZ-TR	

LM317T	LM317T	
	LM317T-DG	
LM335AZ	LM335AZ	
LM335AZT	LM335AZT	
LM335Z	LM335Z	
MC34063ABN	MC34063ABN	
MC34063ACN	MC34063ACN	
MC34063EBN	MC34063EBN	
MC34063ECN	MC34063ECN	
	MJD122-1	
MJE2955T	MJE2955T	
MJE3055T	MJE3055T	
P0102DA 1AA3	P0102DA 1AA3	
P0102DA 5AL3	P0102DA 5AL3	
P0111MA 1AA3	P0111MA 1AA3	
P0115DA 5AL3	P0115DA 5AL3	
P0118MA 5AL3	P0118MA 5AL3	
	ST13007D	
ST901T	ST901T	
	STB6NK60Z-1	
	STBR3012W	
	STBR6012W	
STD12NF06L-1	STD12NF06L-1	
	STD2HNC60Z-1	
	STD5NK40Z-1	
	STE139N65M5	
	STE140NF20D	
STE53NC50	STE53NC50	
STGE200NB60S	STGE200NB60S	
	STGP10H60DF	
	STGP10NC60HD	
	STGP10NC60KD	
	STGP15H60DF	
	STGP19NC60HD	
	STGP19NC60KD	
STGP20NC60V	STGP20NC60V	
	STGP20V60F	
	STGP30H60DF	
	STGP30H60DFB	
	STGP30M65DF2	
	STGP30V60DF	
	STGP35HF60W	
	STGP40V60F	
	STGP5H60DF	
STGP7NC60HD	STGP7NC60HD	
	STGP8NC60KD	
	STGW19NC60HD	
	STGW20H60DF	
STGW20NC60VD	STGW20NC60VD	
	STGW20V60DF	
	STGW25H120DF2	

	STGW25H120F2	
	STGW25M120DF3	
	STGW30H60DFB	
	STGW30H65FB	
	STGW30NC120HD	
	STGW30NC60KD	
STGW30NC60WD	STGW30NC60WD	
	STGW35HF60W	
	STGW35HF60WD	
	STGW35HF60WDI	
STGW35NB60SD	STGW35NB60SD	
	STGW39NC60VD	
	STGW40H65DFB	
	STGW40H65FB	
	STGW40M120DF3	
	STGW40NC60KD	
	STGW40V60DF	
	STGW40V60F	
	STGW45HF60WDI	
	STGW60H60DLFB	
	STGW60H65DF	
	STGW60H65DFB	
	STGW60H65DRF	
	STGW60H65FB	
	STGW60V60DF	
	STGW60V60F	
	STGW80H65DFB	
	STGW80V60DF	
	STGWT30H60DFB	
	STGWT30H65FB	
	STGWT40H65DFB	
	STGWT40H65FB	
	STGWT60H65DFB	
	STGWT60H65FB	
	STGWT60V60DF	
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	STP100N8F6	
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	STP10N60M2	
	STP10N95K5	
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	STP10NM60N	
	STP110N10F7	
	STP110N8F7	
	STP11N60DM2	
STP11NK50Z	STP11NK50Z	

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	STP11NM60ND	
	STP11NM65N	
STP11NM80	STP11NM80	
STP120NF10	STP120NF10	
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	STP13N60M2	
	STP13N95K3	
	STP13NM60N	
	STP13NM60ND	
	STP140N6F7	
	STP140N8F7	
STP140NF75	STP140NF75	
	STP141NF55	
STP14NF10	STP14NF10	
STP14NK50Z	STP14NK50Z	
	STP150N10F7	
	STP15N65M5	
	STP15N80K5	
	STP15N95K5	
	STP15NM60ND	
	STP160N3LL	
	STP160N75F3	
	STP165N10F4	
	STP16N50M2	
	STP16N65M2	
	STP16N65M5	
STP16NF06	STP16NF06	
STP16NF06L	STP16NF06L	
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	STP180N4F6	
	STP18N60M2	
	STP18N65M5	
	STP18NM60ND	
	STP18NM80	
	STP190N55LF3	
	STP19NF20	
	STP200N3LL	
	STP20N90K5	
	STP20N95K5	
	STP20NF20	
STP20NK50Z	STP20NK50Z	
STP20NM50	STP20NM50	
STP20NM50FD	STP20NM50FD	
STP20NM60	STP20NM60	
	STP21NM60ND	

	STP220N6F7	
	STP23N80K5	
	STP23NM50N	
	STP23NM60ND	
	STP240N10F7	
	STP24N60DM2	
	STP24N60M2	
	STP24N65M2	
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	STP25N80K5	
	STP25NM60ND	
	STP26NM60N	
	STP270N8F7	
	STP28N60M2	
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	STP2N80K5	
	STP2N95K5	
	STP2NK100Z	
	STP30N65M5	
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	STP30NF20	
	STP310N10F7	
	STP315N10F7	
	STP31N65M5	
	STP33N60M2	
	STP33N65M2	
	STP34N65M5	
	STP34NM60N	
	STP34NM60ND	
STP35NF10	STP35NF10	
	STP38N65M5	
	STP3LN80K5	
	STP3N150	
	STP3N80K5	
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STP3NK80Z	STP3NK80Z	
	STP40N60M2	
	STP40N65M2	
	STP40NF10	
STP40NF10L	STP40NF10L	
	STP40NF20	
	STP42N65M5	
	STP45N10F7	
	STP45N40DM2AG	
	STP45N65M5	
STP45NF06	STP45NF06	
	STP46NF30	
	STP4LN80K5	

	STP4N150	
	STP4N52K3	
	STP4N80K5	
	STP4N90K5	
STP55NF06	STP55NF06	
STP55NF06L	STP55NF06L	
	STP57N65M5	
	STP5N105K5	
	STP5N60M2	
	STP5N62K3	
	STP5N80K5	
	STP5N95K5	
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STP5NK80Z	STP5NK80Z	
STP60NF06	STP60NF06	
STP60NF06L	STP60NF06L	
STP60NF10	STP60NF10	
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	STP65NF06	
	STP6N120K3	
	STP6N60M2	
	STP6N80K5	
	STP6N90K5	
	STP6N95K5	
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	STP75NF75C	
	STP76NF75	
	STP7LN80K5	
	STP7N105K5	
	STP7N52K3	
	STP7N60M2	
	STP7N90K5	
	STP7N95K3	
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	STP7NM80	
	STP80N10F7	
	STP80N6F6	
STP80NF06	STP80NF06	
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STP80NF55-08	STP80NF55-08	
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	STP85N3LH5	
	STP8N80K5	
	STP8N90K5	
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STP8NK80Z	STP8NK80Z	

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	STP9N60M2	
	STP9NM60N	
	STPS10120CT	
STPS1045D	STPS1045D	
STPS10H100CT	STPS10H100CT	
STPS10L25D	STPS10L25D	
STPS10L60D	STPS10L60D	
STPS12045TV	STPS12045TV	
STPS120L15TV	STPS120L15TV	
STPS1545D	STPS1545D	
STPS15L25D	STPS15L25D	
STPS160H100TV	STPS160H100TV	
STPS200170TV1	STPS200170TV1	
	STPS200170TV1Y	
STPS20120D	STPS20120D	
STPS20150CT	STPS20150CT	
	STPS20200CT	
STPS2030CT	STPS2030CT	
STPS2045CT	STPS2045CT	
STPS20H100CT	STPS20H100CT	
STPS20L60CT	STPS20L60CT	
	STPS20M60D	
	STPS20SM60D	
STPS24045TV	STPS24045TV	
	STPS30100ST	
STPS30150CT	STPS30150CT	
STPS30170CW	STPS30170CW	
STPS3045CT	STPS3045CT	
	STPS30H60CT	
STPS30L30CT	STPS30L30CT	
STPS40120CT	STPS40120CT	
STPS40150CW	STPS40150CW	
STPS40170CT	STPS40170CT	
STPS40H100CW	STPS40H100CW	
STPS40L15CT	STPS40L15CT	
STPS40L45CT	STPS40L45CT	
STPS40L45CW	STPS40L45CW	
	STPS40M120CT	
STPS41H100CT	STPS41H100CT	
	STPS41H100CTY	
STPS41L60CT	STPS41L60CT	
STPS60150CT	STPS60150CT	
STPS60170CT	STPS60170CT	
STPS6045CW	STPS6045CW	
STPS60H100CT	STPS60H100CT	
STPS60L45CW	STPS60L45CW	
	STPS60SM200CW	
STPS61150CW	STPS61150CW	
STPS61170CW	STPS61170CW	
STPS61H100CW	STPS61H100CW	

	STPS61L45CT	
	STPS61L60CW	
STPS745D	STPS745D	
STPS80150CW	STPS80150CW	
STPS80170CW	STPS80170CW	
STPS80H100TV	STPS80H100TV	
STPS8H100D	STPS8H100D	
	STPSC1006D	
	STPSC10H065D	
	STPSC10H065DY	
	STPSC10H12D	
	STPSC12065DY	
	STPSC1206D	
	STPSC12C065DY	
	STPSC12H065CT	
	STPSC12H065D	
	STPSC12H065DY	
	STPSC16H065CT	
	STPSC20065DY	
	STPSC20065W	
	STPSC20065WY	
	STPSC2006CW	
	STPSC20H065CT	
	STPSC20H065CTY	
	STPSC20H065CW	
	STPSC20H065CWY	
	STPSC20H12D	
	STPSC2H12D	
	STPSC40065CW	
	STPSC406D	
	STPSC4H065D	
	STPSC606D	
	STPSC6H065D	
	STPSC8065DY	
	STPSC806D	
	STPSC8H065CT	
	STPSC8H065D	
	STQ1NK60ZR-AP	
	STQ1NK80ZR-AP	
	STQ2NK60ZR-AP	
STSA1805-AP	STSA1805-AP	
	STTH10002TV1	
	STTH100W04CW	
	STTH100W06CW	
	STTH12010TV1	
	STTH12012TV1	
	STTH1202D	
STTH120L06TV1	STTH120L06TV1	
	STTH120R04TV1	
	STTH1210D	
	STTH1212D	

STTH12R06D	STTH12R06D	
	STTH1502D	
	STTH1512W	
	STTH15AC06CT	
STTH15L06D	STTH15L06D	
	STTH15S12D	
STTH16003TV1	STTH16003TV1	
STTH1602CT	STTH1602CT	
STTH16L06CT	STTH16L06CT	
	STTH16R04CT	
STTH20002TV1	STTH20002TV1	
STTH20004TV1	STTH20004TV1	
STTH2002CT	STTH2002CT	
	STTH2002D	
STTH2003CR	STTH2003CR	
STTH2003CT	STTH2003CT	
	STTH200L04TV1	
STTH200L06TV1	STTH200L06TV1	
	STTH20L03CT	
STTH3002CW	STTH3002CW	
STTH3003CW	STTH3003CW	
	STTH3006W	
	STTH3010D	
	STTH3010W	
	STTH3012D	
	STTH3012W	
	STTH30ACS06W	
STTH30L06CW	STTH30L06CW	
STTH30L06W	STTH30L06W	
	STTH30R04D	
STTH30R06CW	STTH30R06CW	
STTH30R06W	STTH30R06W	
	STTH50W03CW	
	STTH512D	
STTH5R06D	STTH5R06D	
STTH6003CW	STTH6003CW	
	STTH6004W	
	STTH6006TV1	
	STTH6006W	
	STTH6010W	
	STTH6010WY	
	STTH6012W	
STTH60L06W	STTH60L06W	
STTH60P03SW	STTH60P03SW	
	STTH60R04W	
	STTH6110TV1	
	STTH6110TV2	
	STTH806D	
	STTH810D	
STTH8L06D	STTH8L06D	
	STTH8R04D	

STTH8R06D	STTH8R06D	
	STTH8S06D	
	STTH9012TV1	
	STTH9012TV2	
	STU5N52K3	
	STU7N60M2	
	STU7NM60N	
	STU9N60M2	
	STW10N105K5	
	STW10N95K5	
STW10NK80Z	STW10NK80Z	
STW11NK100Z	STW11NK100Z	
STW11NM80	STW11NM80	
	STW120NF10	
	STW12N120K5	
	STW12N150K5	
STW12NK80Z	STW12NK80Z	
STW12NK90Z	STW12NK90Z	
	STW13N60M2	
	STW13N95K3	
STW13NK100Z	STW13NK100Z	
STW13NK60Z	STW13NK60Z	
STW14NK50Z	STW14NK50Z	
	STW15N80K5	
	STW15N95K5	
STW15NK90Z	STW15NK90Z	
	STW18N60M2	
	STW18NM60N	
	STW18NM80	
	STW20N65M5	
	STW20N95K5	
STW20NK50Z	STW20NK50Z	
STW20NM50FD	STW20NM50FD	
	STW21N90K5	
	STW21NM60ND	
	STW22N95K5	
	STW23N80K5	
	STW23N85K5	
	STW23NM50N	
	STW24N60DM2	
	STW24N60M2	
	STW25N80K5	
	STW25NM60ND	
	STW26NM60N	
	STW28N60M2	
	STW28N65M2	
	STW28NM50N	
	STW28NM60ND	
	STW30N65M5	
	STW31N65M5	
	STW32NM50N	

	STW33N60M2	
	STW34N65M5	
	STW34NM60N	
	STW34NM60ND	
	STW36NM60ND	
	STW38N65M5	
	STW3N170	
	STW40N60M2	
	STW40N65M2	
	STW40N95K5	
	STW40NF20	
	STW42N60M2-EP	
	STW43NM60ND	
	STW45N65M5	
STW45NM50	STW45NM50	
STW45NM60	STW45NM60	
	STW48N60M2	
	STW48NM60N	
	STW4N150	
	STW50N65DM2AG	
	STW52NK25Z	
	STW54NM65ND	
	STW55NM60ND	
	STW56N60DM2	
	STW56N60M2	
	STW57N65M5	
	STW62N65M5	
	STW65N80K5	
	STW69N65M5	
	STW6N95K5	
	STW70N60M2	
	STW72N60DM2AG	
	STW75NF20	
	STW75NF30	
	STW77N65M5	
	STW7N105K5	
	STW7N90K5	
STW7NK90Z	STW7NK90Z	
	STW88N65M5	
STW8NK80Z	STW8NK80Z	
	STW9N150	
STW9NK90Z	STW9NK90Z	
	STX616-AP	
	STX93003	
	STY100NM60N	
	STY105NM50N	
	STY112N65M5	
	STY139N65M5	
	STY145N65M5	
	STY50N105DK5	
T405-600H	T405-600H	

T410-600H	T410-600H	
T410-800H	T410-800H	
T435-600H	T435-600H	
T435-800H	T435-800H	
	T610T-8T	
	T810T-8T	
TDE1737DP	TDE1737DP	
TDE1798DP	TDE1798DP	
TIP102	TIP102	
TIP105	TIP105	
TIP107	TIP107	
TIP112	TIP112	
TIP120	TIP120	
TIP122	TIP122	
TIP125	TIP125	
	TIP127	
TIP142	TIP142	
TIP142T	TIP142T	
TIP147T	TIP147T	
TIP29A	TIP29A	
TIP29C	TIP29C	
TIP31C	TIP31C	
TIP32C	TIP32C	
TIP35C	TIP35C	
TIP36C	TIP36C	
TIP36CW	TIP36CW	
TIP41C	TIP41C	
	TIP42C	
TIP47	TIP47	
TIP50	TIP50	
TL1431ACZT	TL1431ACZT	
TL431ACZ	TL431ACZ	
TL431ACZ-AP	TL431ACZ-AP	
TL431ACZT	TL431ACZT	
TL431AIZ	TL431AIZ	
TL431AIZ-AP	TL431AIZ-AP	
TL431AIZT	TL431AIZT	
TL431CZ	TL431CZ	
TL431CZ-AP	TL431CZ-AP	
TL431CZT	TL431CZT	
TL431IZT	TL431IZT	
	TM8050H-8W	
	TS110-8A1	
	TS110-8A2	
	TS110-8A2-AP	
TS431IZ	TS431IZ	
TS820-600T	TS820-600T	
TS831-4IZT	TS831-4IZT	
TYN612MRG	TYN612MRG	
	UC2842BN	
UC2843BN	UC2843BN	

	UC2844BN	
UC3842BN	UC3842BN	
UC3843BN	UC3843BN	
	UC3844BN	
	UC3845BN	
	VIPER06HN	
	VIPER06LN	
	VIPER06XN	
	VIPER16HN	
	VIPER16LN	
	VIPER17HN	
	VIPER17LN	
	VIPER26HN	
	VIPER26LN	
	VIPER27HN	
	VIPER27LN	
	VIPER28HN	
	VIPER28LN	
	VIPER37HE	
	VIPER37LE	
	VIPER38HE	
	VIPER38LE	
	VNP10N06-E	
	VNP10N07-E	
	VNP14NV04-E	
	VNP20N07-E	
	VNP35N07-E	
	VNP35NV04-E	
	VNP5N07-E	
X00602MA 5AL2	X00602MA 5AL2	
	X00619MA1AA2	
	X00619MA5AL2	
X0202MA 1BA2	X0202MA 1BA2	
X0202MA 2BL2	X0202MA 2BL2	
X0202NA 1BA2	X0202NA 1BA2	
X0402MF 0AA2	X0402MF 0AA2	
X0402MF 1AA2	X0402MF 1AA2	
X0402NF 1AA2	X0402NF 1AA2	
X0403DF 1AA2	X0403DF 1AA2	
X0403MF 1AA2	X0403MF 1AA2	
X0405MF 1AA2	X0405MF 1AA2	
	XL0840	
Z00607MA 1BA2	Z00607MA 1BA2	
Z00607MA 5BL2	Z00607MA 5BL2	
Z0103MA 1AA2	Z0103MA 1AA2	
Z0103MA 2AL2	Z0103MA 2AL2	
	Z0109MA 5AL2	
Z0110MA 1AA2	Z0110MA 1AA2	
Z0405MF 1AA2	Z0405MF 1AA2	
Z0409NF 1AA2	Z0409NF 1AA2	
Z0410MF 1AA2	Z0410MF 1AA2	

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PRODUCT/PROCESS CHANGE INFORMATION

SUBJECT **PRODUCT ALERT / EARLY NOTIFICATION - DISCONTINUATION OF CURRENT MOLD COMPOUNDS (SAMSUNG SDI) FOR THROUGH HOLE PACKAGES**

IMPACTED PRODUCTS	<p>Several products currently in production with Samsung SDI mold compounds, diffused in different Front End technologies and assembled in the following packages:</p> <ul style="list-style-type: none"> ✚ TO 220 / DO 220 / I2PAK (except TO220 Clip) ✚ TO 247/ DO 247 / MAX247 ✚ ISOTOP ✚ TO92 ✚ TO3P-3L ✚ TO202 ✚ IPAK <p>Products from Automotive & Discrete Group (ADG) and Analog, MEMS & Sensors Group (AMS) are directly impacted.</p>
MANUFACTURING STEP	Assembly (material: mold compound).
INVOLVED PLANT	ST internal assembly plants as well as subcontractors
CHANGE REASON	<p>Samsung SDI product termination of the following references of molding compound for through hole packages</p> <ul style="list-style-type: none"> ✚ SG8200DTA ✚ SG8200DTB / 1 ✚ SG-8100G / GS / GSA ✚ SI-7200DXC ✚ SG8100GSP ✚ SI-7200DX2 ✚ ST-7100HF



CHANGE DESCRIPTION	Replacement of current mold compounds with alternative material. ST is already proceeding with new resins evaluation and qualification, to guarantee adequate products continuity.
TRACEABILITY	By date code and internal traceability to be detailed in PCN to come.
VALIDATION	<p>Validation is based on the different type of packages, required performances and market application requirements. Reference guidelines such as AEC-Q100 (for integrated circuits) and AEC-Q101 (for discrete devices) are taken into account for automotive products.</p> <p>Appropriate technical qualification results and dedicated PCNs will be available and communicated by ST also with the change implementation timeline and samples availability.</p>
NOTIFICATION	The change will be notified to customers by PCN sent by product divisions from Q2 2019 depending on the products and packages families.
REPORTS	This is an alert note/early notification, to allow customers to be prepared for managing the change in a short timeframe. Dedicated Product Change Notification (PCN) will follow in forthcoming months, upon products qualification completion.



Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCI Title : PRODUCT ALERT / Early Notification - DISCONTINUATION OF CURRENT MOLD COMPOUNDS (SAMSUNG SDI) FOR THROUGH HOLE PACKAGES

PCI Reference : CRP/19/11478

Subject : Public Products List

Dear Customer,

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

STGW60V60F	X0402MF 1AA2	STP5NK100Z
STPS20L25CT	STP20NM50FD	STGW15M120DF3
STW18NM60N	TL1431ACZT	STPS30M80CT
STTH50W03CW	P0130AA 1EA3	STP12N60M2
Z0107NA 5AL2	FLC21-135A	P0111MA 1AA3
STP20NM50	STP40NF03L	STW20N95K5
STP18N65M5	X0405NF 1AA2	STP60NF06L
STGW25M120DF3	STI47N60DM6AG	STW40N60M2
STPSC8065D	STPS3045CT	P0115DA 5AL3
STP7NK80Z	STP42N60M2-EP	STPS30SM100ST
STPS41H100CT	STPS10H100CT	STW12N150K5
STP2NK90Z	Z0107MA 1AA2	STW13NK100Z
STPS4045CWY	MJE2955T	STP8NK80Z
Z0103MA 1AA2	STPS10150CT	STP36N60M6
L78L09ABZ	STTH8S06D	STB10NK60Z-1
STD17NF03L-1	L7915ACV	STD12NF06L-1
STPS4045CW	STGW25H120F2	STP33N65M2
BD239C	STD2HNB60Z-1	STGW35NB60SD
STGPL6NC60D	XL0840	BUL138
STPS30H100CW	VNP5N07-E	STTH6002CW
STW26N65DM2	STB130NS04ZB-1	BDX54C
STTH20R04D	STW40N65M2	STPS30M100ST
STP10NK60Z	STW40N95DK5	STY112N65M5
STGP10NB60SD	VIPER17LN	STPS1545CT
STW36N55M5	Z00607MA 2BL2	TL431AIZ
BTB04-600SL	STGP10M65DF2	STTH3003CW
STP33N60M2	STTH9012TV2	FERD40L60CTS
L7815CV-DG	L7809CV-DG	P0102DA 5AL3
L7805CV-DG	Z0402MF0AA2	Z0402MF 1AA2
STTH6110TV2	STW24NM60N	STTH6110TV1
STW23NM50N	STW28N60M2	Z0405NF0AA2
STPS3045CW	STP100N8F6	STTH3006W
LF50CV	STP165N10F4	LF33ABV-DG
L78L33ACZTR	L7905ACV-DG	STTH8R03D
L78M08CV	STW4N150	STGP10NC60KD



Public Products List

X0403MF 1AA2	STPS30L60CT	STGWT80V60DF
STY60NM50	STW32NM50N	STW75N60DM6
STPSC15H12DY	FERD40H100STS	STW70N60M2
STGP30H60DF	STW26NM60N	STP3NK80Z
STPSC1006D	L7818CV-DG	STW10N105K5
STTH15L06D	BUL416T	STGWT30H60DFB
STPS30L45CT	VIPER28HN	STTH60L06TV1
STW11NK90Z	STGW30V60DF	STGW30NC60WD
STP200NF03	STGP20H60DF	STPSC8065DY
STTH120L06TV1	STPS40170CW	STU6N65M2
STPS16150CT	STGW20H60DF	TL431ACZ-AP
STP20NK50Z	STU10NM60N	STTH6006W
L7905ACV	STPS20120CT	STTH810D
TL1431IZT	STGW40H120F2	STW28N65M2
STPSC12H065CT	X00602MA 2AL2	STW20N65M5
X00619MA5AL2	STP13NM60N	STGWT60H65FB
STPSC40065CW	STPS40SM100CT	L78L09ACZ-AP
STTH60W03CW	P0111DA 1AA3	STPS20L15D
STP9NK90Z	STP40N60M2	TIP42A
L7806ACV	STW25N80K5	LM135Z
STGW80H65DFB	STTH2002CT	STP150N10F7
STP16N60M2	STW48N60M6	L7908CV-DG
L7808CV	STP5NK60Z	L4931CZ50-AP
X0202NA 1BA2	STP6NK90Z	STI11NM80
STPS10L40CT	TS431AIZT	STW63N65DM2
STTH30ST06WY	STY145N65M5	LD1086BV-DG
L7818CV	STTH802D	STTH1210D
STP8N90K5	Z0109NA 2AL2	L78L05ABZ-TR
STP11N65M2	STTH30ACS06W	LD1117V33-DG
STTH30R04D	L7805ABV-DG	TS420-600H
L78S09CV	X0202NA2BL2	STGP19NC60KD
STPS30100ST	TIP137	L7912CV
L79L12ACZ-TR	FERD30H100SH	STP105N3LL
STP140NF55	STPS61150CW	STW56N60DM2
STPS2545CT	L7806ABV-DG	Z0107MA 5AL2
STPS20150CT	STTH200R04TV1	STPS40L45CT
TIP121	L7806CV-DG	STTH15R06D
L7824CV	STTH602CT	VNP35N07-E
STPS40120CT	Z0103MA 2AL2	STW48NM60N
STP12N120K5	STGP7NC60HD	ACS108-6SA-AP
STGWT20H65FB	L78L15ABZ-AP	X00619MA1AA2
STPS2045CT	X0205MA 1BA2	STGP10H60DF
L6562AN	STP30NF10	STW45NM60
STPS20LCD200CT	STW42N65M5	STI6N80K5
STPS61L45CW	STP14NF10	Z0410MF 1AA2
LD1117V-DG	Z0110MA 1AA2	STP80NF55L-06
STPS41L60CT	STW7N90K5	X00602MA 5AL2
STP11NM60FD	TN5050H-12WY	STPSC20H12D
L7824ABV	STP20N95K5	L7815ACV
XL0840-TR	L4960	STP100NF04



Public Products List

STGPL6NC60DI	Z0109MA 2AL2	STP15N80K5
L7815CV	STP13N60M2	STW70N60DM6
VIPER37LE	STI13NM60N	STGP14NC60KD
TIP32C	STP130N8F7	STTH1202D
STP9N60M2	STP17N80K5	X0205NA 1BA2
STTH240F04TV1	STTH2003CT	STP12N50M2
STP14NM50N	VIPER27LN	STPS10L25D
FERD20M60ST	STPS61L60CT	L7824ACV
STP5N95K5	L7815ACV-DG	STP7N65M2
STW19NM60N	BDX34C	LF60ABV
STW65N60DM6	L7824ACV-DG	STW15NK50Z
STB6NK60Z-1	STP6N95K5	Z0405MF 1AA2
LD1117V33	STPS20L60CT	STGW30NC60KD
STTH1602CT	STPS30150CW	FERD20S100SH
UC3845BN	STW78N65M5	L78L05ACZTR
STTH30R06CW	STP8NM50N	STE88N65M5
STP270N8F7	STTH6003CW	STP20NF06L
STW65N65DM2AG	STW9NK90Z	Z0107NA 2AL2
STW15NK90Z	STP170N8F7	STP110N7F6
STGW40H65DFB	LD1085V	STP34N65M5
STPS61H100CW	FERD30L60CTS	STGP6M65DF2
STTH30RQ06WY	STU7N60M2	STP7N80K5
L7812CV-DG	STW48N60M2	STPS20SM100ST
STGP8M120DF3	STPS60150CT	STTH100W06CW
L7912ACV-DG	STW34NM60N	Z0103NA 2AL2
STTH3002CT	STTH16R04CT	STX13005
STU11N65M2	STP24N60M2	LM337SP
STW42N60M2-EP	STP80NF55-08	STP9N65M2
STPS160H100TV	L7808ACV-DG	STP20NM60
VIPER16LN	L7915CV-DG	STP240N10F7
TIP41C	STP22NM60N	STW9N80K5
X0202MA 2BL2	STTH30RQ06DY	TS431IZT
STGY40NC60VD	FERD20M60SR	STGP20V60DF
STTH2002D	STP16NF06L	L7824ABV-DG
STB4NK60Z-1	L78M12CV	L78L24ACZ-AP
STPS745D	T635T-8T	L7915CV
P0109DA 5AL3	STPS61L45CT	STP120NF10
STI20N65M5	STW24N60M2	BUL741
TL1431AIZT	STPS30L120CR	STPS1545CR
L7812ACV-DG	STP220N6F7	STI33N65M2
STGW60V60DF	STPS40M100CR	STP80NF70
VIPER27HN	STTH1502D	L6565N
STPS10120CT	STW8NK80Z	BU508AW
STTH12R06D	TL431ACZT	STP310N10F7
STPS20S100CT	STP18N60M6	STPS6045CW
TL431IZ	STE139N65M5	TIP36C
STW24N60DM2	Z0103NA 1AA2	X0405MF 1AA2
T835-600H	STW8N90K5	STP8N120K5
STW48N60DM2	STGP8NC60KD	STP26N65DM2
VIPER38HE	L7805ACV	STP160N3LL



Public Products List

STPS30L120CT	STPS30L30CT	VNP10N07-E
STP19NF20	STGW80V60F	STW62N65M5
L78L05ACZ-AP	STTH120R04TV1	STGW60H65DF
STGW19NC60HD	STP18N65M2	Z0405NF 1AA2
STGW40H60DLFB	L79L05ACZ	STP24N60DM2
STPS40L15CW	TS110-7A1	STPS20L45CT
STI42N65M5	STPS60L30CW	STP21N90K5
Z0109MA 5AL2	STP80NF55-06	STI18N65M2
L7912ACV	Z0107MA 2AL2	STPS20120CR
STGW20V60DF	LM217T	TIP35C
TL431IZT	STW18N65M5	P0102DA 1AA3
L7812ACV	STGW25H120DF2	STPS40L15CT
LF33CV	STI24N60M2	STP260N4F7
STW88N65M5	STTH60L06W	MC34063ECN
STBR6012WY	STPSC12065DY	STP70NF03L
STTH30R04W	STW12NK90Z	STP62NS04Z
STW13N60M2	STW10NK60Z	STW20NM60FD
STGP19NC60HD	L78S15CV	T435-800H
STTH60AC06CW	STTH5R06D	BUL38D
STE48NM50	FERD30H60CTS	FERD60U45CT
STW69N65M5	STGW39NC60VD	STGWT80V60F
STW58N65DM2AG	STTH1210DY	STX616-AP
STP80NF55-08AG	STP2N95K5	STP24NF10
TN1215-600H	STW75N60M6	STTH12003TV1
STX13003-AP	LF60CV	L4971
STP21N65M5	STPS30120CT	TIP107
STW11NM80	STGW75M65DF2	STGWT80H65DFB
STPS40M60CT	TS831-4IZT	STP35NF10
X0205MA 2BL2	STGW80H65FB	L78L05CZ
Z0109MA 1AA2	TN1215-800H	STTH16003TV1
STPSC16H065CT	L7812ABV	STTH6012W
STP42N65M5	STP95N4F3	STP24N65M2
STPS40170CT	STPSC606D	VNP20N07-E
STP10P6F6	STPS30L60CW	Z0409MF 1AA2
Z0103MA 5AL2	TIP142	STP80NF10
STTH15AC06CT	STP45N65M5	L4940V85
STP75NF75	STP18NM60N	L78L24ABZ-TR
STP90NF03L	STPS12045TV	L7824CV-DG
L4940V5	LF50ABV	TS820-600T
STTH2002CR	VIPER37HE	LD1117V33C
T1635T-8T	L78M15ABV-DG	STP4N90K5
STU6N60M2	STP6N62K3	L4978
L78M05CV	LM335AZ	STTH1002CR
STP6NK60Z	STTH3010WY	L7805ACV-DG
STP6N60M2	X00602MA 1AA2	STI20N60M2-EP
X0402MF 0AA2	STY105NM50N	STP110N8F6
ST13007D	STPS30H100CT	STGY50NC60WD
STP16NF06	STP150NF04	STW6N90K5
STW3N150	STPSC10H12DY	L78L05ACZ
STPSC10H12D	STPS20100CT	STTH1512W



Public Products List

UC2845BN	Z0107NA 1AA2	STY60NK30Z
L7815ABV	STPS3060CW	L78L06ABZ
STP28N65M2	STPS40H100CW	VIPER17HN
LD1117V33C-DG	X00619MA2AL2	STW45NM50
L6561	BUL381D	STI21N65M5
L78S12CV	STP28N60M2	STTH61R04TV2
STP25N80K5	STPSC16H065AW	STTH20002TV1
LM317T	2SD1047	BUL1102E
STTH20L03CT	STTH16L06CTY	STP16N65M2
BUL216	STP5N105K5	LF33ABV
STTH16L06CT	STTH1002CT	STP40NF12
STW21N150K5	STP80N10F7	STTH20003TV1
LD1086V18-DG	LIC01-215H	TIP142T
STPS30L45CW	STW14NK50Z	STP46N60M6
STPS60L45CW	TIP29A	STP18NM80
STW74NF30	STW20N95DK5	STW33N60M2
STP76NF75	STP8NK100Z	T410-800H
STW34N65M5	L78M15CV-DG	STPS10L60D
L7806ACV-DG	STP5NK50Z	STP7N90K5
STP15N60M2-EP	TL431CZ	Z0409NF 1AA2
STP7NK40Z	L7915ACV-DG	STP85NF55
STPS20SM80CT	STGW40M120DF3	STW70N60DM2
STP5N80K5	STGW35HF60WDI	STPS5H100H
STTH30S12W	STTH10LCD06CT	L78M15CV
STGW20NC60VD	L78S75CV	STU13005N
L78L15ACZ	STPS41H100CTY	STPSC6C065DY
TS431AIZ-AP	L78M05CV-DG	STP15N65M5
STP140N6F7	STW28NM50N	TM8050H-8W
STP18N60DM2	L78L12ACZ-TR	STW7NK90Z
STPSC10065D	STP35N60DM2	L7812CV
BUL743	L78L12ACZ	BUL89
STTH200F04TV1	STPS200170TV1Y	L78L33ACZ
STU5N52K3	STPS61170CW	STU4N62K3
TL1431ACZ	STP13N65M2	STGP19NC60SD
STP28N60DM2	STGP20V60F	L7812ABV-DG
ACS108-6SA-TR	STPS30150CT	UC3843BN
ACS108-6SA	STP120N4F6	STP28NM50N
STP14NK50Z	FERD30H100STS	STU9N65M2
L7905CV	STW31N65M5	VIPER25HN
TIP3055	STP4LN80K5	L79L05ACZ-TR
X0202MA 1BA2	STW23N85K5	L4976
STP60NF06	STTH30R03CW	STPSC6H065D
STP26N60M2	STPS40M100CT	STP03D200
TS820-600H	STPSC12H065D	STP40NF10
T405Q-600H	STGW30H60DLFB	STTH512D
STW25N60M2-EP	BDX53C	STW15N95K5
STW30N65M5	STPSC40065CWY	VIPER06LN
TIP47	TS431AIZ	STI300N4F6
TS431IZ	LE33CZ-AP	STPS2030CT
TIP132	STB80NF55-06-1	STW77N65M5



Public Products List

ACS102-6TA-TR	TIP2955	TIP115
STW15N80K5	STTH30R06W	STGW40V60DF
STP15N95K5	STPSC20065DY	Z0410MF0AA2
STP43N60DM2	STP185N55F3	STPS20SM120ST
LD1117V50-DG	STP26N60DM6	STW6N95K5
STPSC20H065CTY	L78L05ABZ	TL431CZT
L7805ABV	STPS120L15TV	TIP36CW
STP100N10F7	STW11NK100Z	IRF630
STP35N60M2-EP	STTH75S12W	T1610T-8T
STPS30H60CT	STP80N6F6	STP13N80K5
STP140NF75	STTH30L06WY	STGWT60H65DFB
STD3NK60Z-1	TIP105	MC34063ABN
2ST31A	STW3N170	LD1117AV33
LE33CZ-TR	STPS40150CW	STW30N80K5
STY139N65M5	STGW40V60DLF	STP26NM60N
BUF420AW	STPS61L60CW	TIP122
L78S24CV	ST13007	BUT30V
STP38N65M5	STP150NF55	STQ2HNC60ZR-AP
STW38N65M5	STGWT30V60DF	TL431AIZ-AP
STW56N65M2	STW43N60DM2	STP12NM50
STW120NF10	L78M24CV-DG	LM2931AZ50R
L7805CV	STTH20004TV1	STGP20NC60V
TS1220-600T	TL431ACZ	X0402NF 1AA2
UC2842BN	STP23NM50N	TS1220-600H
STP40NF20	STW35N60M2-EP	STW50N65DM2AG
STGW40NC60KD	STU7N65M2	STW27N60M2-EP
STW20N90K5	FERD30SM100ST	FERD30M45CT
T1235T-8T	STP60NF10	STTH3010W
STTH806D	STP18N55M5	STGW40H65FB
L7809ABV-DG	STP55NF06	STW20NM60
STTH8R04D	STPS24045TV	LD1086V-DG
T410-600H	STP50NF25	STPS40150CT
STPSC1206D	STP45N60DM6	STP75NS04Z
STPS1045D	TL431IZ-AP	STW7N105K5
Z0405MF0AA2	VIPER06HN	STP10N105K5
STGW40H120DF2	STQ2NK60ZR-AP	STU10N60M2
BUL39D	STQ1NK60ZR-AP	STP19NM50N
STGE200NB60S	STP7N60M2	L7808ABV-DG
VIPER06XN	LM317LZ-AP	STP140N8F7
STTH30RQ06D	STP190N55LF3	BUT70W
STP9NK65Z	VIPER35LE	BD241C
L7809ABV	STTH30W02CW	BDX53B
STTH3012D	STP315N10F7	L78L33ABZ-AP
STTH8L06D	Z0409NF0AA2	STP22N60DM6
STW5NK100Z	STP180NS04ZC	STP11NM80
D44H8	STQ1HNC60R-AP	STP30N10F7
TL1431CZ-AP	STP11NM60ND	STW10NK80Z
STP160N4LF6	STW52NK25Z	STU7N80K5
STPSC10065DY	STTH9012TV1	STPS1545D
STPSC20H12DY	STPSC15H12D	STY50N105DK5



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STW18N60M2	LD1086V33-DG	STW12N170K5
STPS40M120CT	P0130AA 2AL3	STPS20200CT
D44H11	STP4N80K5	LD1085V50
STP55NF06L	STW72N60DM2AG	STSA1805-AP
L78L09ACZ-TR	L7808ACV	STP36NF06L
STTH803D	STI76NF75	STP46NF30
STGW30H60DFB	BDX33C	STP10NM60N
STPS20H100CT	BDW94C	STTH12010TV1
STU7LN80K5	Z00607MA 5BL2	T405-600H
STTH100W04CW	STPS40SM60CT	VNP35NV04-E
MC34063EBN	STW13N80K5	P0118MA 2AL3
STGP6NC60HD	STPS20170CT	STGW35HF60W
STP16N50M2	STP2N105K5	TL1431ACZ-AP
STW58N60DM2AG	TIP35CP	STGP5H60DF
STP20N60M2-EP	STPS200170TV1	L78M09CV
STU7NF25	TIP50	STP4NK60Z
STP45N60DM2AG	STP30N65M5	X0405MF0AA2
STW24N60M6	STP20NF20	ACS108-8SA-TR
STP7N95K3	STGP30V60F	FERD20S100STS
STGP10NB60S	BUV48A	STP13N60DM2
STPS30SM120ST	STPS20H100CR	STGP3HF60HD
STP180N10F3	L78M09CV-DG	STP35N65DM2
TL431AIZT	L78M05ABV-DG	BUL128D-B
STTH15RQ06D	STP25N60M2-EP	STI270N4F3
STP8N80K5	STP27N60M2-EP	STPS20M100ST
STP57N65M5	BUL742C	STU5NK50Z
STTH30RQ06W	STI55NF03L	L78L05ABZ-AP
STP24N60M6	STP18N60M2	STGP15H60DF
LM335Z	STBR3012WY	STTH15S12D
STP34NM60N	STW45N60DM2AG	STGW20NC60V
STTH5L06D	STGWT20HP65FB	STPS40SM120CR
TL1431IZ-AP	TN22-1500H	STW45N60DM6
STP260N6F6	STW56N65DM2	L78M12CV-DG
TS110-8A1-AP	TIP120	STP6N90K5
L7908CV	D45H11	STU3N65M6
STTH6004W	ST13009	STGW28IH125DF
STPSC12C065DY	ST13005	STTH10002TV2
STPSC806D	2STW200	STTH3012W
TS110-8A2	STW7N95K3	STTH8R06D
ST901T	STP80NF12	LF33CV-DG
STW36N60M6	STW9NK95Z	STTH15RQ06WY
STL128D	STW45N65M5	STI24N60M6
TIP35CW	MJE3055T	STP180N4F6
STP2NK100Z	STPSC10H065D	L7815ABV-DG
L7809CV	STW18N60DM2	STW21N90K5
STU3N62K3	STGW60H65DFB	STTH812D
STPS60H100CT	STGP4M65DF2	VIPER28LN
STP100N6F7	STGW60H65FB	LD1117V50
STP9N80K5	STGP10NC60HD	STPS41H100CR
STW26N60M2	STPS30170CW	STTH200L06TV1



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STW35N65DM2	STP16N65M5	L78L08ABZ-AP
PB137ACV	STPS80H100TV	L78L33ACZ-AP
STI33N60M2	STTH30L06CW	STU6N90K5
STP7N105K5	BU941ZT	STGWT20H60DF
STP141NF55	L4931CZ33-AP	VIPER38LE
L7885CV	STPS30M60ST	L7912CV-DG
STX93003	STPS80170CW	MC34063ACN
STP4N150	BU931T	STGW30H65FB
L78L08ABZTR	STW33N60DM2	TS110-8A1
STPSC20065W	BD912	STGP7H60DF
STPS60170CT	STTH3002CW	STP9NK70Z
STP65NF06	STP7N52K3	STTH200L04TV1
STI6N62K3	STPSC5H12D	STP52P3LLH6
STP10N60M2	STU9N60M2	STGW60H60DLFB
STPS40L45CW	L7808CV-DG	TL1431CZT
STGW40V60F	FERD20L60CTS	STGP35HF60W
STGW8M120DF3	STP11NK40Z	STGW15H120DF2
STPS40M80CT	STP80NF06	TIP147T
STP11N60DM2	L78L12ABZ	STTH6006TV1
L7905CV-DG	LF50CV-DG	STW75NF20
VIPER25LN	STP3NK90Z	TL1431IZ
STP33N60M6	STW35N60DM2	BUL654
L78M24CV	L7806CV	L78M05ABV
STP200N3LL	STGWT40V60DF	L78M15ABV
FERD20H100SH	STTH15RQ06W	LD1117V18
STI18N60M2	STD5NK40Z-1	STP160N75F3
STPS80150CW	STTH60L06CW	TIP112
ACST1210-7T	STBR3012W	LD1117V50C
STW23N80K5	STTH3010D	STP22N60M6
FLC01-200H	STGWT40HP65FB	STP25N10F7
STP12NK30Z	STW37N60DM2AG	L78S18CV
LM335AZT	STP10N80K5	BDW93C
STD2NC45-1	L78L12ACZ-AP	STGW80V60DF
Z0410NF 1AA2	STP20N65M5	FERD60M45CT
LD1084V	STGP3NC120HD	L79L05ABZ-AP
STW28N60DM2	STPSC8H065D	STU2N62K3
STGWT20V60DF	STPS16045TV	STW12NK80Z
STPSC2006CW	LM317LZ	STGW30NC120HD
STP5NK52ZD	STP85N3LH5	STPSC10H065DY
STP36N55M5	L78L12ABZ-AP	LF90CV
STP40N65M2	STW8N120K5	2STW100
TIP125	STP33N60DM2	STTH1212D
FERD40M45CT	STP10NK80Z	P0118MA 5AL3
STP45N40DM2AG	STW12N120K5	BUL49D
STGWT30HP65FB	ACST830-8T	STTH6010WY
STGWT80H65FB	STTH60R04W	STPS20150CR
STU7NM60N	TIP127	STGP15M65DF2
STP5NK80Z	VIPER26HN	VIPER16HN
L78S05CV	STGWT30H65FB	STGW60H65DRF
XL0840-AP	STGW10M65DF2	BU931P



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L78M08CV-DG	T1210T-8T	STPS20SM60D
STP130N6F7	STP45N10F7	BUL7216
STW70N65M2	UC3842BN	STP15NK50Z
STPS30L30CR	STGWT60H60DLFB	STP30NF20
STGWT40H65DFB	LM235Z	ACS108-8SA-AP
STPS30M60CT	STGW20H65FB	ACS120-7ST
TL1431AIZ-AP	STW56N60M2	STI28N60M2
TIP102	BUTW92	STP110N10F7
UC3844BN	STGP30V60DF	STD4NK60Z-1
TS420-600T	STU5N80K5	STI6N95K5
STP45NF06	STTH12012TV1	STTH60P03SW
STW26NM50	STP9NK50Z	VIPER35HE
LD1117V	STPSC20065WY	STP5N60M2
TIP31A	STE140NF20D	TYN612MRG
T835T-8T	STW13NK60Z	STPSC20065D
STI45N10F7	STTH10002TV1	TL431CZ-AP
STE53NC50	BUL58D	STGP20M65DF2
TS110-8A2-AP	STW33N60M6	STP110N8F7
TIP31C	STPS8H100D	STGP30H60DFB
STW65N80K5	STGWT15H60F	STP20N90K5
STP4NK80Z	Z00607MA 1BA2	STW20NM50FD
STTH61W04SW	STW240N10F7	STY100NM60N
STI4N62K3	STW10N95K5	STB7NK80Z-1
TDE1798DP	STTH2003CR	ACST1035-7T
STP13NK60Z	STTH6010W	L7808ABV
TIP147	L78L08ACZTR	STPS1545DY
STPSC12H065DY	STW22N95K5	STGWT60V60DF
ACST610-8T	STY60NM60	FERD40U45CT
L200CV	STP6N65M2	STPSC406D
LE50ABZ-AP	STPSC8H065CT	FERD20H100STS
BD911	STI40N65M2	STW40NF20
STP75NF20	STE60N105DK5	LM217LZ-TR
L4962E/A	STPS60SM200CW	STGW30V60F
STW18NM80	STP10N95K5	STGP40V60F
TIP42C	STPS15L25D	T435-600H
STP7LN80K5	L7809ACV	STPSC4H065D
BUL98	LM317LZ-TR	TIP29C
STPS20120D	L78S10CV	STD1NK60-1
STP14N80K5	STPSC10C065RY	STGWT28IH125DF
STBV32-AP	STU5N60M2	VIPER26LN
STPSC20H065CW	STI57N65M5	STGW20IH125DF
STTH15RQ06DY	STGW15H120F2	STPSC20H065CT
TR136	STE70NM60	STTH8S12D
STP10LN80K5	L4941BV	STI150N10F7
STGP30M65DF2	TS110-7A1-AP	TN22-1500T
STBR6012W	STPSC2H12D	STPSC12065D
STP11NK50Z	P0102DA 2AL3	STE145N65M5
L7806ABV	STTH60RQ06WY	STW40N90K5
STE40NC60	TS431IZ-AP	STP11NM60
UC2844BN	L79L08ACZ-AP	P0111DA 5AL3



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STP3LN80K5	FERD30M45CR	STGW20V60F
STP3N150	STU4N52K3	STW40N95K5
STP24NM60N	STGWT30V60F	STP12N65M5
STW68N60M6	STW9N150	STP40NF10L
STP12N65M2	STI6N90K5	STP31N65M5
STP23N80K5	STP410N4F7AG	STTH30R04DY
STP11N65M5	T810T-8T	STGWT20V60F
STW46NF30	STP20NM60FD	TN3050H-12WY
L78L08ACZ	STP13N95K3	STW20N60M2-EP
TS831-5IZ-AP	STPSC20H065CWY	STP2N80K5
STGWT20IH125DF	UC2843BN	STGW30M65DF2
STPS20M60D	STP33N60DM6	STGP15M120F3
ACST1010-7T	FERD20H60CTS	BULD118D-1
STPS3030CR	ACST1235-7T	T610T-8T
STTH60RQ06W	STW20NK50Z	STP6N80K5
LF50ABV-DG	STP5N62K3	STW57N65M5
STQ2LN60K3-AP	TDE1787ADP	TDE1737DP
L6569A	STP80NS04ZB	STW13N95K3
STP3NK50Z	L6562N	STP32NM50N
STGWT40V60DLF	STW75NF30	VNP28N04-E
VNP10N06-E	STP11NM65N	L6388E
STW19NM50N	STP3NK60Z	STP4NK50ZD
STP3N80K5	STGWT40H60DLFB	STB5NK50Z-1
STP78NF55-08	L6571A	STL73
STP12NK80Z	STL128DN	LD1086VY
STQ3N45K3-AP	STP4N52K3	STQ1HN60K3-AP
STP7NM80	L6385E	STGW35HF60WD
STI175N4F6AG	STD4NK50Z-1	STD3NK50Z-1
STW60NM50N	STP70NS04ZC	STGWT40H65FB
STI24NM60N	L6569	STP9NM60N
L6387E	STU2LN60K3	2STX1360-AP
STW12NK95Z		



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