


**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	ADG/19/11736	
<b>1.3 Title of PCN</b>	I2PAK, IPAK, Max247, Short IPAK, TO-220, TO-247 New Molding Compound Shenzhen (China) - Bouskoura (Morocco) - Tongfu Microelectronics (China) - INDUSTRIAL	
<b>1.4 Product Category</b>	Power MOSFET IGBT Power BIPOLAR	
<b>1.5 Issue date</b>	2019-09-13	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
<b>2.1.1 Name</b>	ROBERTSON HEATHER
<b>2.1.2 Phone</b>	+1 8475853058
<b>2.1.3 Email</b>	heather.robertson@st.com
<b>2.2 Change responsibility</b>	
<b>2.2.1 Product Manager</b>	Maurizio GIUDICE,Angelo RAO,Nicola LIPORACE,Mario ASTUTI
<b>2.1.2 Marketing Manager</b>	Natale Sandro D'ANGELO,Anna MOTTESE,Anna RANIOLO
<b>2.1.3 Quality Manager</b>	Vincenzo MILITANO,Francesco MINERVA

**3. Change**

<b>3.1 Category</b>	<b>3.2 Type of change</b>	<b>3.3 Manufacturing Location</b>
Materials	New direct material part number (same supplier, different supplier or new supplier), Mold compound	BOUSKOURA (Morocco) SHENZHEN (China) Tongfu Microelectronics (China)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	Samsung SDI product termination of the following references of molding compound for I2PAK, IPAK, Max247, Short IPAK, TO-220, TO-247 packages.	Replacement of current mold compounds with alternative material. ST is already proceeding with new resins evaluation and qualification, to guarantee adequate products continuity.
<b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b>	no impact	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	Product discontinuance from current supplier
<b>5.2 Customer Benefit</b>	SERVICE CONTINUITY

**6. Marking of parts / traceability of change**

<b>6.1 Description</b>	by FG code or Q.A. number
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2019-09-11
<b>7.2 Intended start of delivery</b>	2019-12-13
<b>7.3 Qualification sample available?</b>	Upon Request

**8. Qualification / Validation**

<b>8.1 Description</b>	11736 Rel17-2019.pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2019-09-13

**9. Attachments (additional documentations)**

11736 Public product.pdf  
 11736 New Molding compound - IND.pdf  
 11736 Rel17-2019.pdf

**10. Affected parts**

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
	2ST31A	
	2STW100	
	2STW200	
	BD239C	
	BD241C	
BD911	BD911	
BD912	BD912	
BDW93C	BDW93C	
BDW94C	BDW94C	
	BDX33C	
	BDX34C	
	BDX53B	
	BDX53C	
	BDX54C	
	BU508AW	
497-4085-5-ND	BUF420AW	
BUF420AW	BUF420AW	
	BUL1203E	
	BUL128D-B	
497-2638-5-ND	BUL216	
BUL216	BUL216	
497-2581-5-ND	BUL38D	
BUL38D	BUL38D	
	BUL416T	
	BUL58D	
	BUL654	
	BUL741	
BUL742C	BUL742C	
	BUL743	
	BUL98	
	BULD118D-1	
BUTW92	BUTW92	
497-2544-5-ND	BUV48A	
BUV48A	BUV48A	
497-2616-5-ND	D44H11	
D44H11	D44H11	
497-2574-5-ND	D44H8	
D44H8	D44H8	
497-2578-5-ND	D45H11	
D45H11	D45H11	
497-2757-5-ND	IRF630	
IRF630	IRF630	
	MJD122-1	
497-2621-5-ND	MJE2955T	

MJE2955T	MJE2955T	
497-2573-5-ND	MJE3055T	
MJE3055T	MJE3055T	
	ST13007D	
497-3510-ND	ST13009	
	ST901T	
	STD12NF06L-1	
	STD17NF03L-1	
	STD3NK60Z-1	
	STD4NK60Z-1	
	STD5NK40Z-1	
	STGP10H60DF	
	STGP10M65DF2	
	STGP10NB60S	
	STGP10NC60HD	
	STGP10NC60KD	
	STGP14NC60KD	
	STGP15H60DF	
	STGP15M65DF2	
	STGP19NC60HD	
	STGP19NC60KD	
	STGP19NC60SD	
	STGP20H60DF	
	STGP20M65DF2	
497-4355-5-ND	STGP20NC60V	
	STGP20V60DF	
	STGP20V60F	
	STGP30H60DF	
	STGP30H60DFB	
	STGP30M65DF2	
	STGP30V60DF	
	STGP30V60F	
	STGP35HF60W	
	STGP3HF60HD	
	STGP3NC120HD	
	STGP40V60F	
	STGP4M65DF2	
	STGP5H60DF	
	STGP6M65DF2	
	STGP6NC60HD	
	STGP7H60DF	
	STGP7NC60HD	
	STGW10M65DF2	
	STGW15H120DF2	
	STGW15H120F2	
	STGW15M120DF3	
	STGW19NC60HD	
	STGW20H60DF	
	STGW20H65FB	
	STGW20IH125DF	
	STGW20NC60VD	

	STGW20V60DF	
	STGW25H120DF2	
	STGW25H120F2	
	STGW25M120DF3	
	STGW28IH125DF	
	STGW30H60DFB	
	STGW30H60DLFB	
	STGW30H65FB	
	STGW30M65DF2	
	STGW30NC120HD	
	STGW30NC60KD	
	STGW30NC60WD	
	STGW30V60DF	
	STGW30V60F	
	STGW35HF60W	
	STGW35HF60WDI	
	STGW35NB60SD	
	STGW39NC60VD	
	STGW40H120DF2	
	STGW40H120F2	
	STGW40H60DLFB	
	STGW40H65DFB	
	STGW40H65FB	
	STGW40M120DF3	
	STGW40NC60KD	
	STGW40V60DF	
	STGW40V60DLF	
	STGW40V60F	
	STGW60H60DLFB	
	STGW60H65DF	
	STGW60H65DFB	
	STGW60H65DRF	
	STGW60H65FB	
	STGW60V60DF	
	STGW60V60F	
	STGW75M65DF2	
	STGW80H65DFB	
	STGW80H65FB	
	STGW80V60DF	
	STGW80V60F	
	STGW8M120DF3	
	STGY40NC60VD	
	STGY50NC60WD	
	STI150N10F7	
	STI18N65M2	
	STI20N65M5	
	STI21N65M5	
	STI24N60M2	
	STI24N60M6	
	STI28N60M2	
	STI33N60M2	

	STI33N65M2	
	STI40N65M2	
	STI42N65M5	
	STI45N10F7	
	STI57N65M5	
	STI6N80K5	
	STI6N90K5	
	STI6N95K5	
	STP03D200	
	STP100N10F7	
	STP100N6F7	
	STP100N8F6	
	STP105N3LL	
	STP10LN80K5	
	STP10N105K5	
	STP10N60M2	
	STP10N95K5	
497-4117-5-ND	STP10NK60Z	
	STP10NK80Z	
	STP10NM60N	
	STP10NM60ND	
	STP10P6F6	
	STP110N10F7	
	STP110N7F6	
	STP110N8F6	
	STP110N8F7	
	STP11N60DM2	
	STP11N65M2	
	STP11N65M5	
	STP11NK40Z	
	STP11NK50Z	
497-2773-5-ND	STP11NM60	
497-3180-5-ND	STP11NM60FD	
	STP11NM60ND	
497-4369-5-ND	STP11NM80	
497-4118-5-ND	STP120NF10	
	STP12N120K5	
	STP12N50M2	
	STP12N60M2	
	STP12N65M5	
	STP12NK30Z	
497-2666-5-ND	STP12NM50	
	STP130N6F7	
	STP130N8F7	
	STP13N60M2	
	STP13N65M2	
	STP13N80K5	
	STP13N95K3	
	STP13NM60N	
	STP13NM60ND	
	STP140N6F7	

	STP140N8F7	
497-4370-5-ND	STP140NF55	
	STP140NF75	
	STP14NF10	
497-4526-5-ND	STP14NK50Z	
	STP14NM50N	
	STP150N10F7	
	STP15N60M2-EP	
	STP15N65M5	
	STP15N80K5	
	STP15N95K5	
	STP160N3LL	
	STP160N4LF6	
	STP160N75F3	
	STP165N10F4	
	STP16N50M2	
	STP16N60M2	
	STP16N65M2	
497-2766-5-ND	STP16NF06	
497-2765-5-ND	STP16NF06L	
	STP170N8F7	
	STP17NF25	
	STP180N10F3	
	STP18N55M5	
	STP18N60DM2	
	STP18N60M2	
	STP18N65M2	
	STP18N65M5	
	STP18NM60N	
	STP18NM80	
	STP19NF20	
	STP19NM50N	
	STP200N3LL	
	STP200NF03	
	STP20N65M5	
	STP20N90K5	
	STP20N95K5	
497-4375-5-ND	STP20NF06L	
	STP20NF20	
	STP20NK50Z	
497-2663-5-ND	STP20NM50	
	STP20NM50FD	
497-3184-5-ND	STP20NM60	
	STP20NM60FD	
	STP21N65M5	
	STP21N90K5	
	STP220N6F7	
	STP22NM60N	
	STP23N80K5	
	STP23NM50N	
	STP23NM60ND	

	STP240N10F7	
	STP24N60DM2	
	STP24N60M2	
	STP24N60M6	
	STP24N65M2	
497-3185-5-ND	STP24NF10	
	STP24NM60N	
	STP25N10F7	
	STP25N60M2-EP	
	STP25N80K5	
	STP260N4F7	
	STP260N6F6	
	STP26N60DM6	
	STP26NM60N	
	STP270N8F7	
	STP27N60M2-EP	
	STP28N60DM2	
	STP28N60M2	
	STP28N65M2	
	STP28NM50N	
	STP28NM60ND	
	STP2N105K5	
	STP2N80K5	
	STP2N95K5	
	STP2NK100Z	
497-4378-5-ND	STP2NK90Z	
	STP30N10F7	
	STP30N65M5	
	STP30NF10	
	STP30NF20	
	STP310N10F7	
	STP31N65M5	
	STP33N60DM2	
	STP33N60M2	
	STP33N60M6	
	STP33N65M2	
	STP34N65M5	
	STP34NM60N	
	STP34NM60ND	
	STP35N60DM2	
	STP36N55M5	
	STP36N60M6	
	STP38N65M5	
	STP3LN80K5	
	STP3N150	
497-4379-5-ND	STP3NK80Z	
	STP3NK90Z	
	STP40N60M2	
	STP40N65M2	
497-3187-5-ND	STP40NF03L	
	STP40NF10	

	STP40NF10L	
	STP40NF20	
	STP42N60M2-EP	
	STP42N65M5	
	STP43N60DM2	
	STP45N60DM6	
	STP45N65M5	
497-3189-5-ND	STP45NF06	
	STP46N60M6	
	STP4LN80K5	
	STP4N150	
	STP4N80K5	
	STP4N90K5	
497-3191-5-ND	STP4NK60Z	
497-3192-5-ND	STP4NK80Z	
497-2777-5-ND	STP55NF06	
	STP55NF06L	
	STP57N65M5	
	STP5N105K5	
	STP5N60M2	
	STP5N62K3	
	STP5N80K5	
	STP5N95K5	
497-4382-5-ND	STP5NK100Z	
497-3195-5-ND	STP5NK50Z	
497-3196-5-ND	STP5NK60Z	
	STP5NK80Z	
497-2779-5-ND	STP60NF06	
	STP60NF06L	
497-4384-5-ND	STP60NF10	
	STP62NS04Z	
	STP65NF06	
	STP6N60M2	
	STP6N62K3	
	STP6N65M2	
	STP6N80K5	
	STP6N90K5	
	STP6N95K5	
497-3198-5-ND	STP6NK60Z	
497-3199-5-ND	STP6NK90Z	
	STP75NF20	
497-2788-5-ND	STP75NF75	
	STP75NS04Z	
	STP7LN80K5	
	STP7N105K5	
	STP7N60M2	
	STP7N65M2	
	STP7N80K5	
	STP7N90K5	
	STP7N95K3	
	STP7NK80Z	



	STP80N10F7	
497-2676-5-ND	STP80NF03L-04	
497-3201-5-ND	STP80NF06	
497-2642-5-ND	STP80NF10	
	STP80NF12	
	STP80NF55	
497-2774-5-ND	STP80NF55-06	
	STP80NF55L-06	
	STP80NF70	
	STP85N3LH5	
	STP8N120K5	
	STP8N80K5	
	STP8N90K5	
	STP8NK100Z	
	STP8NM50N	
	STP9N60M2	
	STP9N65M2	
497-3203-5-ND	STP9NK50Z	
	STP9NK60Z	
	STP9NK70Z	
497-2785-5-ND	STP9NK90Z	
	STU10NM60N	
	STU11N65M2	
	STU13005N	
	STU3N62K3	
	STU5N52K3	
	STU5N60M2	
	STU6N60M2	
	STU6N65M2	
	STU6N90K5	
	STU7LN80K5	
	STU7N60M2	
	STU7N65M2	
	STU7N80K5	
	STU7NF25	
	STU7NM60N	
	STU9N60M2	
	STU9N65M2	
	STW10N105K5	
	STW10N95K5	
497-3253-5-ND	STW10NK60Z	
497-3254-5-ND	STW10NK80Z	
497-3255-5-ND	STW11NK100Z	
497-4420-5-ND	STW11NM80	
	STW120NF10	
	STW12N120K5	
	STW12N150K5	
	STW12N170K5	
497-3256-5-ND	STW12NK80Z	
497-4421-5-ND	STW12NK90Z	
	STW13N60M2	

	STW13N80K5	
497-3556-5-ND	STW13NK100Z	
497-3258-5-ND	STW14NK50Z	
	STW15N80K5	
	STW15N95K5	
497-3260-5-ND	STW15NK50Z	
497-3557-5-ND	STW15NK90Z	
	STW18N60DM2	
	STW18N60M2	
	STW18N65M5	
	STW18NM80	
	STW20N65M5	
	STW20N90K5	
	STW20N95DK5	
	STW20N95K5	
497-3261-5-ND	STW20NK50Z	
497-2717-5-ND	STW20NM50FD	
497-3263-5-ND	STW20NM60	
	STW20NM60FD	
	STW21N150K5	
	STW21N90K5	
	STW23N80K5	
	STW23NM50N	
	STW24N60DM2	
	STW24N60M2	
	STW24N60M6	
	STW24NM60N	
	STW25N80K5	
497-3264-5-ND	STW26NM50	
	STW26NM60N	
	STW27N60M2-EP	
	STW28N60DM2	
	STW28N60M2	
	STW28N65M2	
	STW28NM50N	
	STW30N65M5	
	STW30N80K5	
	STW31N65M5	
	STW32NM50N	
	STW33N60DM2	
	STW33N60M2	
	STW33N60M6	
	STW34NM60N	
	STW34NM60ND	
	STW35N60DM2	
	STW36N55M5	
	STW36N60M6	
	STW38N65M5	
	STW3N150	
	STW3N170	
	STW40N60M2	

	STW40N65M2	
	STW40N90K5	
	STW40N95DK5	
	STW40N95K5	
	STW40NF20	
	STW42N60M2-EP	
	STW42N65M5	
	STW43N60DM2	
	STW45N60DM6	
	STW45N65M5	
497-2760-5-ND	STW45NM50	
497-2768-5-ND	STW45NM60	
	STW48N60DM2	
	STW48N60M2	
	STW48NM60N	
	STW4N150	
497-4428-5-ND	STW52NK25Z	
	STW56N60DM2	
	STW56N60M2	
	STW56N65DM2	
	STW56N65M2	
	STW57N65M5	
	STW5NK100Z	
	STW65N60DM6	
	STW65N80K5	
	STW68N60M6	
	STW69N65M5	
	STW6N90K5	
	STW6N95K5	
	STW70N60DM2	
	STW70N60DM6	
	STW70N60M2	
	STW75N60DM6	
	STW75NF20	
	STW77N65M5	
	STW7N105K5	
	STW7N90K5	
	STW7NK90Z	
	STW88N65M5	
	STW8N120K5	
	STW8N90K5	
	STW8NK80Z	
	STW9N150	
	STW9N80K5	
497-2784-5-ND	STW9NK90Z	
	STW9NK95Z	
	STY100NM60N	
	STY105NM50N	
	STY112N65M5	
	STY139N65M5	
	STY145N65M5	

	STY50N105DK5	
497-4432-5-ND	STY60NK30Z	
497-2775-5-ND	STY60NM50	
497-3268-5-ND	STY60NM60	
497-2546-5-ND	TIP102	
497-2536-5-ND	TIP105	
497-2606-5-ND	TIP107	
497-2533-5-ND	TIP112	
497-2619-5-ND	TIP115	
497-2539-5-ND	TIP120	
497-2543-5-ND	TIP122	
497-2618-5-ND	TIP125	
	TIP127	
	TIP132	
	TIP137	
	TIP142	
	TIP142T	
497-2569-5-ND	TIP147	
	TIP147T	
497-2608-5-ND	TIP2955	
497-2580-5-ND	TIP29A	
497-2611-5-ND	TIP29C	
497-2586-5-ND	TIP3055	
497-2602-5-ND	TIP31A	
497-2615-5-ND	TIP31C	
497-2628-5-ND	TIP32C	
	TIP35C	
497-4633-5-ND	TIP35CW	
	TIP36C	
497-4634-5-ND	TIP36CW	
497-2622-5-ND	TIP41C	
497-2552-5-ND	TIP42A	
	TIP42C	
497-2631-5-ND	TIP47	
497-2605-5-ND	TIP50	



## 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

**PCN Title :** I2PAK, IPAK, Max247, Short IPAK, TO-220, TO-247 New Molding Compound Shenzhen (China) - Bouskoura (Morocco) - Tongfu Microelectronics (China) - INDUSTRIAL

**PCN Reference :** ADG/19/11736

**Subject :** Public Products List

Dear Customer,

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

STGW60V60F	STP5NK100Z	STP55NF06
STP20NM50FD	STGW15M120DF3	STW18NM60N
BDX53B	STP12N60M2	STP36N60M6
STP75NF75	STP80NF10	STP20NM50
STP40NF03L	STP22N60DM6	STW20N95K5
STP18N65M5	STP48N30M8	STW5NK100Z
STP60NF06L	STGW25M120DF3	STGP30H60DF
STW40N60M2	D44H8	STP30N10F7
STGP7NC60HD	STP7NK80Z	STGW19NC60HD
STP42N60M2-EP	STW10NK80Z	STP11NM60ND
STGW40V60DF	STP160N4LF6	STW52NK25Z
STW12N150K5	STP2NK90Z	STW13NK100Z
MJE2955T	STP8NK80Z	STU7N80K5
STB10NK60Z-1	STD17NF03L-1	STP24N60DM2
STGW25H120F2	STY50N105DK5	STW18N60M2
STP33N65M2	STD2HNC60Z-1	BD239C
STGW35NB60SD	STGPL6NC60D	STGP19NC60KD
STW12N170K5	STGW60H60DLFB	BUL138
STW33N60M2	STW26N65DM2	BDX54C
STW40N65M2	STP26NM60N	STGP6NC60HD
D44H11	STP4N80K5	STP10NK60Z
STW40N95DK5	STY112N65M5	STW36N55M5
STP90NF03L	STGW30H60DFB	BDX33C
STP10NM60N	STGP10M65DF2	BDW94C
STP33N60M2	STU7LN80K5	STW26NM60N
STW24NM60N	STGP10NB60SD	STP55NF06L
STW23NM50N	STW13N80K5	STW28N60M2
STP100N8F6	STGW35HF60W	STP165N10F4
STW4N150	STP16N50M2	STP11NM80
STP2N105K5	STW75N60DM6	STW32NM50N
STY60NM50	STW70N60M2	STGP5H60DF
STP110N8F6	STP3NK80Z	STP20N60M2-EP
STP220N6F7	STW15NK90Z	STU7NF25
STD4NK50Z-1	STP28N65M2	STW10N105K5
STGW40H120DF2	STP4NK60Z	TIP50



## Public Products List

STP30N65M5	STW24N60M6	BUL416T
STP20NF20	STGW20V60DF	STP7N95K3
STW11NK90Z	STGW30V60DF	STGP30V60F
STGW30NC60WD	STGP10NB60S	BUV48A
STU6N65M2	STGP3HF60HD	STP20NK50Z
STP180N10F3	STU10NM60N	STP140NF55
STP35N65DM2	STP16N65M2	STGW40H120F2
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STP13NM60N	STP25N60M2-EP	STP8N80K5
STP27N60M2-EP	STGP19NC60SD	STW6N95K5
STP57N65M5	BUL742C	STP9NK90Z
STP40N60M2	STU5NK50Z	TIP42A
STP24N60M6	STW25N80K5	STP18N60M2
STGW20H60DF	STGW80H65DFB	STP150N10F7
STGP15H60DF	STP16N60M2	STW48N60M6
STP5NK60Z	STP34NM60N	STP6NK90Z
STGW20NC60V	STP40NF10	STD12NF06L-1
STW63N65DM2	STP80NF70	STP60NF06
STY145N65M5	STP8N90K5	STP11N65M2
STW45N60DM6	STP260N6F6	STW56N65DM2
TIP137	STP105N3LL	TIP120
STP6N90K5	STW56N60DM2	STW70N65DM6
STP20N90K5	STU3N65M6	ST13009
STP13N60DM2	TIP121	STW88N65M5
STGW28IH125DF	STW43N60DM2	ST13005
STP18NM60N	STW48NM60N	STP12N120K5
2STW200	D45H11	STW7N95K3
STGP10H60DF	ST901T	STP30NF10
STW45NM60	STP80NF12	STGP10NC60HD
STW42N65M5	STI6N80K5	STP14NF10
STW36N60M6	STW9NK95Z	STL128D
STW7N90K5	STP11NM60FD	STW45N65M5
STI24N60M6	TIP35CW	MJE3055T
STP20N95K5	STP180N4F6	STP2NK100Z
STP160N3LL	STW21N90K5	STW18N60DM2
STP15N80K5	STP13N60M2	STW70N60DM6
STI13NM60N	TIP32C	STU3N62K3
STGW60H65DFB	STP130N8F7	STGP4M65DF2
STP9N60M2	STP17N80K5	STP100N6F7
STGW60H65FB	STP9N80K5	STP12N50M2
STP14NM50N	STP5N95K5	STW26N60M2
STP7N65M2	BDX34C	STW35N65DM2
STP16N65M5	STGW40H60DLFB	STW65N60DM6
STI33N60M2	STW15NK50Z	STB6NK60Z-1
STP6N95K5	STP7N105K5	STU6N90K5
STGW30NC60KD	TIP142	STP24N60M2
STP4N150	STGW30H65FB	STP8NM50N
STP270N8F7	STW33N60DM2	STP20NF06L
BD912	STW9NK90Z	STGP7H60DF
STP170N8F7	STP110N7F6	STGW40H65DFB



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STP9NK70Z	STP34N65M5	STGP6M65DF2
STP7N80K5	STGP8NC60KD	STU7N60M2
STP80NF55-06	STW48N60M2	STW20N90K5
STGP8M120DF3	STP65NF06	STP20NM60
STP7N52K3	STW34NM60N	STP40NF12
STI6N62K3	STW48N60DM2	STP52P3LLH6
STU11N65M2	STW42N60M2-EP	STP10N60M2
STU9N60M2	STW24N60M2	STGW40V60F
STP9N65M2	STGP14NC60KD	STU7N70M6
STGP35HF60W	STGPL6NC60DI	STGW8M120DF3
STP240N10F7	TIP41C	STP11NK40Z
STP22NM60N	STW9N80K5	STGW15H120DF2
STP80NF06	STP16NF06L	TIP147T
STB4NK60Z-1	BUL38D	STP11N60DM2
STGP10NC60KD	STP120NF10	STI20N65M5
BUL741	STGP19NC60HD	STW75NF20
STI33N65M2	STP3NK90Z	STP33N60M6
STW70N60DM2	STW8NK80Z	BU508AW
BUL654	STW35N60DM2	STW68N65DM6
STP310N10F7	STP200N3LL	STP18N60M6
TIP36C	STW24N60DM2	STGP20V60DF
STW8N90K5	STI18N60M2	STP8N120K5
STD5NK40Z-1	STP200NF03	STP160N75F3
STP26N65DM2	STP19NF20	TIP112
STGW80V60F	STGW60V60DF	STGW60H65DF
STP18N65M2	STW23N80K5	STP22N60M6
STI42N65M5	STP25N10F7	STP12NK30Z
STP21N90K5	STI18N65M2	STP10N80K5
TIP35C	BDW93C	STD2NC45-1
STW18N65M5	STGW25H120DF2	STP20N65M5
STI24N60M2	STGP3NC120HD	STGY40NC60VD
STW28N60DM2	STP70NF03L	STW12NK90Z
STP62NS04Z	STW13N60M2	STW10NK60Z
STGY50NC60WD	STW20NM60FD	STU2N62K3
STGW80V60DF	STW12NK80Z	STW69N65M5
STGW39NC60VD	STGW30NC120HD	STP5NK52ZD
STP85N3LH5	STP2N95K5	STP24NF10
STW75N60M6	STP11NM60	STP36N55M5
STP40N65M2	STW8N120K5	TIP107
STW11NM80	2STW100	STP33N60DM2
TIP125	STGW75M65DF2	STP35NF10
STP10NK80Z	STGW40NC60KD	STGW80H65FB
BUL49D	STW12N120K5	STP80N10F7
STP100N10F7	STP42N65M5	STP24N65M2
STU7NM60N	STP10P6F6	TIP127
STGP15M65DF2	STP5NK80Z	STP21N65M5
STGW30H60DLFB	STGW60H65DRF	STGW10M65DF2
STW21N150K5	STP45N65M5	STP45N10F7
STP130N6F7	TIP3055	BUL7216
STP4N90K5	STW70N65M2	STP15NK50Z



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STU6N60M2	STP6N62K3	STP30NF20
STP6NK60Z	STGW20H65FB	STP6N60M2
STI20N60M2-EP	STY105NM50N	STW56N60M2
ST13007D	STI28N60M2	TIP102
STP16NF06	STW6N90K5	STW3N150
BUTW92	STP110N10F7	STP28N60M2
STD4NK60Z-1	STGP30V60DF	STU5N80K5
STY60NK30Z	STP26N60DM6	STI6N95K5
STP45NF06	STW45NM50	BUL381D
STI21N65M5	STW26NM50	STP9NK50Z
STP5N60M2	STP25N80K5	BUL1102E
TIP31A	STW13NK60Z	STI45N10F7
STGP30H60DFB	BUL58D	STP5N105K5
STW11NK100Z	STGP20M65DF2	STP140N8F7
STW33N60M6	STP260N4F7	STP110N8F7
TIP31C	TIP142T	STW65N80K5
STW14NK50Z	STP46N60M6	STP4NK80Z
TIP29A	STP18NM80	STW74NF30
STW20NM50FD	STW20N95DK5	STP8NK100Z
STW34N65M5	STW240N10F7	STY100NM60N
STI4N62K3	STW10N95K5	STB7NK80Z-1
STP13NK60Z	STP5NK50Z	TIP147
STP7N90K5	STP15N60M2-EP	STP43N60DM2
STP7NK40Z	STGW40M120DF3	STP5N80K5
STGW20NC60VD	STY60NM60	STP140N6F7
STU13005N	STP6N65M2	STGW35HF60WDI
STP15N65M5	STW28NM50N	STP18N60DM2
STW7NK90Z	BD911	STP35N60DM2
STI40N65M2	BUL743	STW40NF20
BUL89	STU5N52K3	STU4N62K3
STP13N65M2	BUL216	STGP20V60F
STP75NF20	STP28N60DM2	STP17NF25
STP28NM50N	STP14NK50Z	IRF630
STU9N65M2	STW31N65M5	STP4LN80K5
STGW30V60F	STW23N85K5	STW18NM80
STP10N95K5	STGP40V60F	STP26N60M2
TIP42C	STP03D200	STP7LN80K5
BUL98	TIP2955	STW25N60M2-EP
BDX53C	STW15N95K5	TIP29C
STW30N65M5	TIP47	TIP132
STD1NK60-1	STP14N80K5	STW77N65M5
TIP115	STW15N80K5	STU5N60M2
STP15N95K5	STI57N65M5	STGW20IH125DF
STGW15H120F2	TR136	TIP36CW
STP10LN80K5	STI150N10F7	STGP30M65DF2
STP140NF75	STP35N60M2-EP	STP13N80K5
STP11NK50Z	STW40N90K5	STD3NK60Z-1
TIP105	2ST31A	STW3N170
STP3LN80K5	STW30N80K5	STGW20V60F
STP3N150	STU4N52K3	STP80NF55L-06





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STP24NM60N	STW40N95K5	STY139N65M5
STGW40V60DLF	BUF420AW	TIP122
STP12N65M5	ST13007	STP38N65M5
STW68N60M6	STW9N150	STP40NF10L
STW38N65M5	STGW40H65FB	STP12N65M2
STW56N65M2	STI6N90K5	STP23N80K5
STP31N65M5	STP12NM50	STP11N65M5
STW120NF10	STGP20NC60V	STP20NM60FD
STP23NM50N	STP40NF20	STW35N60M2-EP
STP13N95K3	STU7N65M2	STW27N60M2-EP
STW20N60M2-EP	STP60NF10	STP2N80K5
STP18N55M5	STW20NM60	STP50NF25
STP45N60DM6	STP75NS04Z	STGW30M65DF2
STP33N60DM6	STW7N105K5	STGP15M120F3
STP10N105K5	STU10N60M2	BULD118D-1
BUL39D	STP9NK60Z	STGP20H60DF
STP19NM50N	STP7N60M2	STW20NK50Z
STP6N80K5	STP5N62K3	BUT70W
STP9NK65Z	STW57N65M5	STP318N4F6
BD241C		



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