



Title of Change:	Mold compound change due to End of Life of Samsung SDI molding compound – Batch 3	
Proposed First Ship date:	4 January 2020	
Contact Information:	Contact your local ON Semiconductor Sales Office or < PCN.Support@onsemi.com >	
Samples:	<p>Samples should be available after completion of qualification. Contact your local ON Semiconductor Sales Office or <PCN.Samples@onsemi.com> Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change.</p>	
Type of Notification:	<p>This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com></p>	
Change Part Identification:	Product with date code 2001 or newer will be assembled with a new mold compound.	
Change Category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____	
Change Sub-Category(s):	<input type="checkbox"/> Manufacturing Site Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Site Transfer <input type="checkbox"/> Product specific change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Other: _____	
Sites Affected:	ON Semiconductor Sites: ON Tarlac City, Philippines	External Foundry/Subcon Sites: ASE Weihai AUK Dalian Ocean Fine Shantou Huashan Electronic Devices SP Semiconductor and Communications Tak Cheong Electronics Shanwei Universal Global Scientific Industrial

**Description and Purpose:**

ON Semiconductor would like to inform its customers of a change in the mold compound for the devices listed in this IPCN. This change is a result of an end of life notification received for Samsung SDI EMC. The replacement mold compound is still being decided for many packages and will be declared on the Final Product Change Notification, which will be sent out 97 days prior to its implementation.

	Before Change Description	After Change Description
Mold Compound (TO220F-4 Package)	Samsung ST-7100HS	TBD
Mold Compound (TO220-2 Package)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
Mold Compound (TO220F-3 Package)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
Mold Compound (TO3P-5 Package)	Samsung SI7200DX2	TBD
Mold Compound (TO3P-3 Package)	Samsung SL7300HXM/SI7200DX2/SG8200DL	TBD
Mold Compound (TO264-3 Package)	Samsung SL7300HFM	TBD
Mold Compound (TO247-2 Package)	Samsung SG8200DL/SL7300HFM	TBD
Mold Compound (TO247-3 Package)	Samsung SG8200DL/SL7300HFM	TBD
Mold Compound (TP247-3 Package)	Samsung SG8200DL	TBD
Mold Compound (TP247-4 Package)	Samsung SG8200DL/SL7300HFM	TBD
Mold Compound (D2PAK-3 Package)	Samsung SG8200DL	Sumitomo EME-G700HF
Mold Compound (SPM5 Package)	Samsung SL7300HW	KCC KTMC3100GP3
Mold Compound (SPM3 Package)	Samsung SL7300HW	TBD

The qualifications will be completed as quickly as possible, but due to the number of qualifications being performed, multiple Final Product Change Notifications (FPCNs) will be released to customers as the various packages/locations are qualified.

There is no product marking change as a result of this change.

**Qualification Plan:**

All Packages will follow the generic plans shown below based on Package type and application:

IC non-auto:

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta= TBD °C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg °C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL ____ @ ____ °C (per datasheet as required)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

Discrete non-auto:

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta= max Tj°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Ta= max Tj°C, 100% max rated Vgss (tech specific)	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = TBD by pkg min	TBD cyc determined by pkg
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL ____ @ ____ °C as required by MSL level on datasheet (SMT)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

Estimated date for qualification completion: 30 August 2019 For first packages with additional qualifications after this date.

**List of Affected Parts:**

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
BUZ11-NR4941	FDP12N60NZ
FCA16N60N	TBD
FCA22N60N	TBD
FCA36N60NF	FQA11N90-F109
FCA47N60	TBD
FCA76N60N	FQA11N90-F109
FCB36N60NTM	FDB047N10
FCH023N65S3-F155	FCH023N65S3-F155
FCH023N65S3L4	FCH023N65S3-F155
FCH040N65S3-F155	FCH023N65S3-F155
FCH041N60E	FCH041N65F-F085, FCH041N60F
FCH041N60F	FCH041N65F-F085, FCH041N60F
FCH041N65EF-F155	FCH041N65F-F085
FCH041N65EFL4	FCH041N65F-F085
FCH041N65EFLN4	TBD
FCH041N65F-F155	FCH041N65F-F085
FCH043N60	FCH041N65F-F085
FCH060N80-F155	FCH041N65F-F085
FCH067N65S3-F155	FCH023N65S3-F155
FCH070N60E	FCH041N65F-F085
FCH072N60	FCH041N65F-F085, FCH041N60F
FCH072N60F	FCH041N65F-F085
FCH077N65F-F155	FCH041N65F-F085
FCH085N80-F155	FCH041N65F-F085
FCH099N60E	FCH041N65F-F085
FCH099N65S3-F155	FCH023N65S3-F155
FCH104N60	FCH041N65F-F085
FCH104N60F	FCH041N65F-F085
FCH110N65F-F155	FCH041N65F-F085
FCH125N60E	FCH041N65F-F085
FCH125N65S3R0-F155	FCH023N65S3-F155



FCH130N60	FCH041N65F-F085, FCH041N60F
FCH150N65F-F155	FCH041N65F-F085
FCH165N60E	FCH041N65F-F085
FCH165N65S3R0-F155	FCH023N65S3-F155
FCH190N65F-F155	FCH041N65F-F085
FCH35N60	FCH041N65F-F085, FCH041N60F
FCH47N60F-F133	FCH041N60F
FCP099N60E	FCP104N60
FCP104N60	FCP104N60
FCP104N60F	FCP104N60
FCP110N65F	FCP104N60
FCP11N60	FCP104N60
FCP11N60F	FCP104N60
FCP11N60N	FCP104N60
FCP11N60N-F102	FCP104N60
FCP125N60E	FCP104N60
FCP130N60	FCP104N60
FCP13N60N	FCP104N60
FCP150N65F	FCP104N60
FCP165N60E	FCP104N60
FCP16N60	FCP104N60
FCP16N60N	FCP104N60
FCP16N60N-F102	FCP104N60
FCP170N60	FCP104N60
FCP190N60	FCP104N60
FCP190N60E	FCP104N60
FCP190N60-GF102	FCP104N60
FCP190N65F	FCP104N60
FCP20N60	FCP104N60
FCP21N60N	FCP104N60
FCP22N60N	FCP104N60
FCP22N60N-F102	FCP104N60
FCP25N60N-F102	FCP104N60
FCP260N60E	FCP104N60
FCP36N60N	FCP104N60, FCP36N60N
FCP380N60	FCP104N60



FCP380N60E	FCP104N60
FCP4N60	FCP104N60
FCP600N60Z	FCP104N60
FCP7N60	FCP104N60
FCP9N60N	FCP104N60
FCP9N60N-F102	FCP104N60
FCPF067N65S3	FCPF067N65S3
FCPF099N65S3	FCPF067N65S3
FCPF11N60NT	FCPF067N65S3
FCPF125N65S3	FCPF067N65S3
FCPF1300N80Z	FCPF067N65S3
FCPF1300N80ZYD	FCP104N60
FCPF13N60NT	FCPF067N65S3
FCPF150N65F	FCPF067N65S3
FCPF165N65S3L1	TBD
FCPF165N65S3ROL	TBD
FCPF16N60NT	FCPF067N65S3
FCPF190N60	FCPF067N65S3
FCPF190N60E	FCPF067N65S3
FCPF190N60-F152	TBD
FCPF190N65FL1	TBD
FCPF190N65S3L1	TBD
FCPF190N65S3ROL	TBD
FCPF220N80	FCPF067N65S3
FCPF2250N80Z	FCPF067N65S3
FCPF22N60NT	FCPF067N65S3
FCPF250N65S3L1	TBD
FCPF250N65S3ROL	TBD
FCPF260N60E	FCPF067N65S3
FCPF260N65FL1	TBD
FCPF290N80	FCPF067N65S3
FCPF360N65S3ROL	TBD
FCPF36N60NT	FCPF067N65S3
FCPF380N60	FCPF067N65S3
FCPF380N60E	FCPF067N65S3
FCPF380N60-F152	TBD



FCPF380N65FL1	TBD
FCPF400N60	FCPF067N65S3
FCPF400N80Z	FCPF067N65S3
FCPF400N80ZL1	TBD
FCPF4300N80Z	FCPF067N65S3
FCPF600N60Z	FCPF067N65S3
FCPF600N60ZL1	TBD
FCPF600N65S3ROL	TBD
FCPF650N80Z	FCPF067N65S3
FCPF7N60NT	FCPF067N65S3
FCPF850N80Z	FCPF067N65S3
FCPF9N60NT	FCPF067N65S3
FCPF9N60NTYDTU	FCP104N60
FDA16N50-F109	TBD
FDA24N50F	FQA65N20
FDA28N50F	FQA65N20
FDA50N50	FQA65N20
FDA59N30	FQA65N20
FDA69N25	FQA65N20
FDB024N06	FDB047N10
FDB029N06	FDB047N10
FDB031N08	FDB047N10
FDB047N10	FDB047N10
FDB20N50F	FDB047N10
FDH038AN08A1	FCH023N65S3-F155
FDH047AN08A0	FCH023N65S3-F155, FCH041N60F
FDH055N15A	FCH023N65S3-F155
FDH210N08	FCH023N65S3-F155
FDH3632	FCH023N65S3-F155, FCH041N60F
FDH44N50	FCH023N65S3-F155
FDH45N50F-F133	FCH023N65S3-F155, FCH041N60F
FDH50N50-F133	FCH023N65S3-F155, FCH041N60F
FDI030N06	FDB047N10
FDL100N50F	SGL160N60UFDTU
FDP020N06B-F102	FDP020N06B-SN00330
FDP023N08B-F102	FDP020N06B-SN00330, FDP047N10



FDP025N06	FDP8440, FDP047N10
FDP027N08B-F102	FDP020N06B-SN00330
FDP030N06	FDP8440, FDP047N10
FDP030N06B-F102	FDP020N06B-SN00330
FDP032N08	FDP8440, FDP047N10
FDP032N08B-F102	FDP020N06B-SN00330
FDP032N08-F102	FDP8440, FDP047N10
FDP036N10A	FDP020N06B-SN00330
FDP038AN06A0	FDP12N60NZ
FDP038AN06A0-F102	FDP12N60NZ
FDP039N08B-F102	FDP8440
FDP045N10A-F102	FDP020N06B-SN00330
FDP047AN08A0	FDP12N60NZ
FDP047AN08A0-F102	FDP12N60NZ
FDP047N08	FDP8440
FDP047N08-F102	FDP8440
FDP047N10	FDP8440, FDP047N10
FDP050AN06A0	FDP12N60NZ
FDP053N08B-F102	FDP020N06B-SN00330
FDP054N10	FDP8440, FDP047N10
FDP060AN08A0	FDP12N60NZ
FDP070AN06A0	FDP12N60NZ
FDP075N15A-F102	FDP020N06B-SN00330
FDP083N15A-F102	FDP020N06B-SN00330
FDP085N10A-F102	FDP020N06B-SN00330
FDP090N10	FDP8440
FDP100N10	FDP8440
FDP10N60NZ	FQP27P06-SW82127
FDP120N10	FDP8440
FDP12N50	FQP27P06-SW82127
FDP12N50NZ	FQP27P06-SW82127
FDP12N60NZ	FQP27P06-SW82127
FDP150N10	FDP8440
FDP150N10A-F102	FDP020N06B-SN00330
FDP15N40	FQP27P06-SW82127
FDP16AN08A0	FDP12N60NZ



FDP18N20F	FQP27P06-SW82127, FDP22N50N
FDP18N50	FQP27P06-SW82127, FDP22N50N
FDP19N40	FQP27P06-SW82127
FDP20N50	FQP27P06-SW82127, FDP22N50N
FDP20N50F	FQP27P06-SW82127, FDP22N50N
FDP22N50N	FQP27P06-SW82127, FDP22N50N
FDP24N40	FQP27P06-SW82127, FDP22N50N
FDP2532	FDP12N60NZ
FDP2552	FDP12N60NZ
FDP2572	FDP12N60NZ
FDP2614	FDP12N60NZ
FDP26N40	FQP27P06-SW82127, FDP22N50N
FDP2710	FDP12N60NZ
HUF75321P3	FDP12N60NZ
HUF75332P3	FDP12N60NZ
HUF75339P3	FDP12N60NZ
HUF75344G3	FCH023N65S3-F155, FCH041N60F
HUF75344P3	FDP12N60NZ
HUF75345G3	FCH023N65S3-F155
HUF75345P3	FDP12N60NZ
HUF75542P3	FDP12N60NZ
HUF75545P3	FDP12N60NZ
HUF75639G3	FCH023N65S3-F155, FCH041N60F
HUF75639P3	FDP12N60NZ
HUF75639P3-F102	FDP12N60NZ
HUF75645P3	FDP12N60NZ
HUF75652G3	FCH023N65S3-F155
HUF75842P3	FDP12N60NZ
HUF75852G3	HUF75852G3
HUF76423P3	FDP12N60NZ
IRF530A	FQP27P06-SW82127, FDP22N50N
IRF634B-FP001	FQP27P06-SW82127, FDP22N50N, FQP12N60C
IRL640A	FQP27P06-SW82127, FDP22N50N
MTP3055VL	MTP3055VL
NDF08N60ZG	TBD
NDP6060	FQP27P06-SW82127



NDP6060L	FQP27P06-SW82127
NDP7060	FQP27P06-SW82127
NTH027N65S3F-F155	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL040N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL065N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL082N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL095N65S3HF	FCH023N65S3-F155
NTHL110N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL190N65S3HF	TBD
NTPF082N65S3F	FCPF067N65S3
NTPF110N65S3HF	FCPF067N65S3
NTPF190N65S3HF	FCPF067N65S3
RFP12N10L	FDP12N60NZ
RFP50N06	FDP12N60NZ
RFP70N06	FDP12N60NZ
SFP9530	FQP27P06-SW82127, FDP22N50N

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



初回製品 / プロセス変更通知

文書番号# : IPCN22647XB

発行日 : 9 April 2019

変更件名:	Samsung SDI 製モールド コンパウンド - Batch 3 の生産終了に伴うモールド コンパウンドの変更	
初回出荷予定日:	4 January 2020	
連絡先情報:	現地のオン・セミコンダクター営業所または <PCN.Support@onsemi.com> にお問い合わせください。	
サンプル:	サンプルは認定完了後に提供が可能となります。 現地のオン・セミコンダクター営業所または <PCN.Samples@onsemi.com> にお問い合わせください。 サンプルは、この変更の初回通知、初回 PCN の日付から 30 日以内に要求してください。	
通知種別:	これは、お客様宛の初回製品 / プロセス変更通知 (IPCN) です。IPCN は、近日中に実施される変更に関する事前通知であり、変更の詳細および影響を受けるデバイスについての一般情報が記載されます。また、暫定的な信頼性認証計画も記載されます。 最終的な認定データおよび特性データは最終製品 / プロセス変更通知 (FPCN) に含まれます。この IPCN は、変更実施から少なくとも 90 日前に発行される最終製品 / プロセス変更通知 (FPCN) に先だって通知されます。ご不明な点がありましたら、<PCN.Support@onsemi.com> にお問い合わせください。	
変更部品の識別:	日付コード 2001 以降の製品は、新しいモールド コンパウンドで組み立てられます	
変更カテゴリ:	<input type="checkbox"/> ウェハファブの変更 <input checked="" type="checkbox"/> アセンブリの変更 <input type="checkbox"/> 試験の変更 <input type="checkbox"/> その他 _____	
変更サブカテゴリ:	<input type="checkbox"/> 製造拠点の追加 <input checked="" type="checkbox"/> 材料の変更 <input type="checkbox"/> データシート/製品資料の変更 <input type="checkbox"/> 製造拠点の移転 <input type="checkbox"/> 製品仕様の変更 <input type="checkbox"/> 出荷/パッケージング/表記 <input type="checkbox"/> 製造プロセスの変更 <input type="checkbox"/> その他: _____	
影響を受ける拠点:	オン・セミコンダクター拠点: ON Tarlac City, Philippines	外部製造工場 / 下請業者拠点: ASE Weihai AUK Dalian Ocean Fine Shantou Huashan Electronic Devices SP Semiconductor and Communications Tak Cheong Electronics Shanwei Universal Global Scientific Industrial



説明および目的:

オン・セミコンダクターは、本 IPCN に列記されたデバイスに対するモールドコンパウンドの変更をお客様にお知らせいたします。この変更は、Samsung SDI EMC から受けた生産終了の通知によるものです。代替のモールドコンパウンドは、多くのパッケージ用に使用すると決定されているもので、実施の 97 日前までに送付される最終製品変更通知にて公表されます。

	変更前の表記	変更後の表記
モールド・コンパウンド (TO220F-4 パッケージ)	Samsung ST-7100HS	TBD
モールド・コンパウンド (TO220-2 パッケージ)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
モールド・コンパウンド (TO220F-3 パッケージ)	Samsung SL7300HFM/SI7200DX2/SG8200DL/SG8300HK	TBD
モールド・コンパウンド (TO3P-5 パッケージ)	Samsung SI7200DX2	TBD
モールド・コンパウンド (TO3P-3 パッケージ)	Samsung SL7300HXM/SI7200DX2/SG8200DL	TBD
モールド・コンパウンド (TO264-3 パッケージ)	Samsung SL7300HFM	TBD
モールド・コンパウンド (TO247-2 パッケージ)	Samsung SG8200DL/SL7300HFM	TBD
モールド・コンパウンド (TO247-3 パッケージ)	Samsung SG8200DL/SL7300HFM	TBD
モールド・コンパウンド (TP247-3 パッケージ)	Samsung SG8200DL	TBD
モールド・コンパウンド (TP247-4 パッケージ)	Samsung SG8200DL/SL7300HFM	TBD
モールド・コンパウンド (D2PAK-3 パッケージ)	Samsung SG8200DL	Sumitomo EME-G700HF
モールド・コンパウンド (SPM5 パッケージ)	Samsung SL7300HW	KCC KTMC3100GP3
モールド・コンパウンド (SPM3 パッケージ)	Samsung SL7300HW	TBD

認定に関してはできる限り早急に終了する予定ですが、各種パッケージ/場所が認定されることになり、実施される認定が多数になるため、複数の最終製品変更通知 (FPCNs) がお客様に発行されることとなります。

今回の変更に伴う製品表示の変更はありません。



認定計画:

すべてのパッケージは、パッケージタイプおよびアプリケーションに基づき以下に示す一般計画に従います。

IC 非車載:

テスト	仕様	条件	間隔
HTOL	JESD22-A108	Ta= TBD °C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg °C	1008 hrs
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL _____ @ _____ °C (per datasheet as required)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

ディスクリート非車載:

テスト	仕様	条件	間隔
HTRB	JESD22-A108	Ta= max Tj°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Ta= max Tj°C, 100% max rated Vgss (tech specific)	1008 hrs
HTSL	JESD22-A103	Ta= max Tj stg	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = TBD by pkg min	TBD cyc determined by pkg
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL _____ @ _____ °C as required by MSL level on datasheet (SMT)	
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	

認定完了予定日: 2019年8月30日 この日付以降の追加認定に基づく初期パッケージに関して。



影響を受ける部品の一覧:

注: 部品一覧には標準部品番号 (既製品) のみが記載されています。本 PCN の影響を受けるカスタム部品番号は、PCN メールで提供される顧客個別の付録、または PCN カスタマイズポータルに記載されています。

部品番号	認定試験用ピークル
BUZ11-NR4941	FDP12N60NZ
FCA16N60N	TBD
FCA22N60N	TBD
FCA36N60NF	FQA11N90-F109
FCA47N60	TBD
FCA76N60N	FQA11N90-F109
FCB36N60NTM	FDB047N10
FCH023N65S3-F155	FCH023N65S3-F155
FCH023N65S3L4	FCH023N65S3-F155
FCH040N65S3-F155	FCH023N65S3-F155
FCH041N60E	FCH041N65F-F085, FCH041N60F
FCH041N60F	FCH041N65F-F085, FCH041N60F
FCH041N65EF-F155	FCH041N65F-F085
FCH041N65EFL4	FCH041N65F-F085
FCH041N65EFLN4	TBD
FCH041N65F-F155	FCH041N65F-F085
FCH043N60	FCH041N65F-F085
FCH060N80-F155	FCH041N65F-F085
FCH067N65S3-F155	FCH023N65S3-F155
FCH070N60E	FCH041N65F-F085
FCH072N60	FCH041N65F-F085, FCH041N60F
FCH072N60F	FCH041N65F-F085
FCH077N65F-F155	FCH041N65F-F085
FCH085N80-F155	FCH041N65F-F085
FCH099N60E	FCH041N65F-F085
FCH099N65S3-F155	FCH023N65S3-F155
FCH104N60	FCH041N65F-F085
FCH104N60F	FCH041N65F-F085
FCH110N65F-F155	FCH041N65F-F085
FCH125N60E	FCH041N65F-F085
FCH125N65S3R0-F155	FCH023N65S3-F155



FCH130N60	FCH041N65F-F085, FCH041N60F
FCH150N65F-F155	FCH041N65F-F085
FCH165N60E	FCH041N65F-F085
FCH165N65S3R0-F155	FCH023N65S3-F155
FCH190N65F-F155	FCH041N65F-F085
FCH35N60	FCH041N65F-F085, FCH041N60F
FCH47N60F-F133	FCH041N60F
FCP099N60E	FCP104N60
FCP104N60	FCP104N60
FCP104N60F	FCP104N60
FCP110N65F	FCP104N60
FCP11N60	FCP104N60
FCP11N60F	FCP104N60
FCP11N60N	FCP104N60
FCP11N60N-F102	FCP104N60
FCP125N60E	FCP104N60
FCP130N60	FCP104N60
FCP13N60N	FCP104N60
FCP150N65F	FCP104N60
FCP165N60E	FCP104N60
FCP16N60	FCP104N60
FCP16N60N	FCP104N60
FCP16N60N-F102	FCP104N60
FCP170N60	FCP104N60
FCP190N60	FCP104N60
FCP190N60E	FCP104N60
FCP190N60-GF102	FCP104N60
FCP190N65F	FCP104N60
FCP20N60	FCP104N60
FCP21N60N	FCP104N60
FCP22N60N	FCP104N60
FCP22N60N-F102	FCP104N60
FCP25N60N-F102	FCP104N60
FCP260N60E	FCP104N60
FCP36N60N	FCP104N60, FCP36N60N
FCP380N60	FCP104N60



FCP380N60E	FCP104N60
FCP4N60	FCP104N60
FCP600N60Z	FCP104N60
FCP7N60	FCP104N60
FCP9N60N	FCP104N60
FCP9N60N-F102	FCP104N60
FCPF067N65S3	FCPF067N65S3
FCPF099N65S3	FCPF067N65S3
FCPF11N60NT	FCPF067N65S3
FCPF125N65S3	FCPF067N65S3
FCPF1300N80Z	FCPF067N65S3
FCPF1300N80ZYD	FCP104N60
FCPF13N60NT	FCPF067N65S3
FCPF150N65F	FCPF067N65S3
FCPF165N65S3L1	TBD
FCPF165N65S3ROL	TBD
FCPF16N60NT	FCPF067N65S3
FCPF190N60	FCPF067N65S3
FCPF190N60E	FCPF067N65S3
FCPF190N60-F152	TBD
FCPF190N65FL1	TBD
FCPF190N65S3L1	TBD
FCPF190N65S3ROL	TBD
FCPF220N80	FCPF067N65S3
FCPF2250N80Z	FCPF067N65S3
FCPF22N60NT	FCPF067N65S3
FCPF250N65S3L1	TBD
FCPF250N65S3ROL	TBD
FCPF260N60E	FCPF067N65S3
FCPF260N65FL1	TBD
FCPF290N80	FCPF067N65S3
FCPF360N65S3ROL	TBD
FCPF36N60NT	FCPF067N65S3
FCPF380N60	FCPF067N65S3
FCPF380N60E	FCPF067N65S3
FCPF380N60-F152	TBD



FCPF380N65FL1	TBD
FCPF400N60	FCPF067N65S3
FCPF400N80Z	FCPF067N65S3
FCPF400N80ZL1	TBD
FCPF4300N80Z	FCPF067N65S3
FCPF600N60Z	FCPF067N65S3
FCPF600N60ZL1	TBD
FCPF600N65S3ROL	TBD
FCPF650N80Z	FCPF067N65S3
FCPF7N60NT	FCPF067N65S3
FCPF850N80Z	FCPF067N65S3
FCPF9N60NT	FCPF067N65S3
FCPF9N60NTYDTU	FCP104N60
FDA16N50-F109	TBD
FDA24N50F	FQA65N20
FDA28N50F	FQA65N20
FDA50N50	FQA65N20
FDA59N30	FQA65N20
FDA69N25	FQA65N20
FDB024N06	FDB047N10
FDB029N06	FDB047N10
FDB031N08	FDB047N10
FDB047N10	FDB047N10
FDB20N50F	FDB047N10
FDH038AN08A1	FCH023N65S3-F155
FDH047AN08A0	FCH023N65S3-F155, FCH041N60F
FDH055N15A	FCH023N65S3-F155
FDH210N08	FCH023N65S3-F155
FDH3632	FCH023N65S3-F155, FCH041N60F
FDH44N50	FCH023N65S3-F155
FDH45N50F-F133	FCH023N65S3-F155, FCH041N60F
FDH50N50-F133	FCH023N65S3-F155, FCH041N60F
FDI030N06	FDB047N10
FDL100N50F	SGL160N60UFDTU
FDP020N06B-F102	FDP020N06B-SN00330
FDP023N08B-F102	FDP020N06B-SN00330, FDP047N10



FDP025N06	FDP8440, FDP047N10
FDP027N08B-F102	FDP020N06B-SN00330
FDP030N06	FDP8440, FDP047N10
FDP030N06B-F102	FDP020N06B-SN00330
FDP032N08	FDP8440, FDP047N10
FDP032N08B-F102	FDP020N06B-SN00330
FDP032N08-F102	FDP8440, FDP047N10
FDP036N10A	FDP020N06B-SN00330
FDP038AN06A0	FDP12N60NZ
FDP038AN06A0-F102	FDP12N60NZ
FDP039N08B-F102	FDP8440
FDP045N10A-F102	FDP020N06B-SN00330
FDP047AN08A0	FDP12N60NZ
FDP047AN08A0-F102	FDP12N60NZ
FDP047N08	FDP8440
FDP047N08-F102	FDP8440
FDP047N10	FDP8440, FDP047N10
FDP050AN06A0	FDP12N60NZ
FDP053N08B-F102	FDP020N06B-SN00330
FDP054N10	FDP8440, FDP047N10
FDP060AN08A0	FDP12N60NZ
FDP070AN06A0	FDP12N60NZ
FDP075N15A-F102	FDP020N06B-SN00330
FDP083N15A-F102	FDP020N06B-SN00330
FDP085N10A-F102	FDP020N06B-SN00330
FDP090N10	FDP8440
FDP100N10	FDP8440
FDP10N60NZ	FQP27P06-SW82127
FDP120N10	FDP8440
FDP12N50	FQP27P06-SW82127
FDP12N50NZ	FQP27P06-SW82127
FDP12N60NZ	FQP27P06-SW82127
FDP150N10	FDP8440
FDP150N10A-F102	FDP020N06B-SN00330
FDP15N40	FQP27P06-SW82127
FDP16AN08A0	FDP12N60NZ



FDP18N20F	FQP27P06-SW82127, FDP22N50N
FDP18N50	FQP27P06-SW82127, FDP22N50N
FDP19N40	FQP27P06-SW82127
FDP20N50	FQP27P06-SW82127, FDP22N50N
FDP20N50F	FQP27P06-SW82127, FDP22N50N
FDP22N50N	FQP27P06-SW82127, FDP22N50N
FDP24N40	FQP27P06-SW82127, FDP22N50N
FDP2532	FDP12N60NZ
FDP2552	FDP12N60NZ
FDP2572	FDP12N60NZ
FDP2614	FDP12N60NZ
FDP26N40	FQP27P06-SW82127, FDP22N50N
FDP2710	FDP12N60NZ
HUF75321P3	FDP12N60NZ
HUF75332P3	FDP12N60NZ
HUF75339P3	FDP12N60NZ
HUF75344G3	FCH023N65S3-F155, FCH041N60F
HUF75344P3	FDP12N60NZ
HUF75345G3	FCH023N65S3-F155
HUF75345P3	FDP12N60NZ
HUF75542P3	FDP12N60NZ
HUF75545P3	FDP12N60NZ
HUF75639G3	FCH023N65S3-F155, FCH041N60F
HUF75639P3	FDP12N60NZ
HUF75639P3-F102	FDP12N60NZ
HUF75645P3	FDP12N60NZ
HUF75652G3	FCH023N65S3-F155
HUF75842P3	FDP12N60NZ
HUF75852G3	HUF75852G3
HUF76423P3	FDP12N60NZ
IRF530A	FQP27P06-SW82127, FDP22N50N
IRF634B-FP001	FQP27P06-SW82127, FDP22N50N, FQP12N60C
IRL640A	FQP27P06-SW82127, FDP22N50N
MTP3055VL	MTP3055VL
NDF08N60ZG	TBD
NDP6060	FQP27P06-SW82127



NDP6060L	FQP27P06-SW82127
NDP7060	FQP27P06-SW82127
NTH027N65S3F-F155	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL040N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL065N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL082N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL095N65S3HF	FCH023N65S3-F155
NTHL110N65S3F	FCH023N65S3-F155, NTH027N65S3F-F155
NTHL190N65S3HF	TBD
NTPF082N65S3F	FCPF067N65S3
NTPF110N65S3HF	FCPF067N65S3
NTPF190N65S3HF	FCPF067N65S3
RFP12N10L	FDP12N60NZ
RFP50N06	FDP12N60NZ
RFP70N06	FDP12N60NZ
SFP9530	FQP27P06-SW82127, FDP22N50N