



Title of Change:	Mold Compound Change attributed to an End of Life of Samsung SDI EMC for products in TO-220 package.	
Proposed first ship date:	4 February 2020	
Contact information:	Contact your local ON Semiconductor Sales Office or <PCN.Support@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office or <PCN.Support@onsemi.com>; <Bokyun.Seo@onsemi.com>; <Sariman.T@onsemi.com>; <JinMan.Song@onsemi.com>; <David.Zhu@onsemi.com>; <Raja.Roziah.Rahmat@onsemi.com>; <CheePin.Tay@onsemi.com>; <Khairil.FK@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. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Lake.Wang@onsemi.com>	
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <PCN.Support@onsemi.com>	
Change Part Identification:	Product with date code 1949 or newer will be assembled with the 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 Suzhou, China	External Foundry/Subcon Sites: NA
Description and Purpose:		
ON Semiconductor wishes to inform our customers of a change in mold compounds used for the devices listed in this PCN. This change is a result of an End of Life notification received from Samsung for several of their SDI Mold Compounds. Due to the discontinuance of the SDI mold compounds, ON Semiconductor will only have limited supplies of the existing material and in some cases this may not allow for the normal change notification period. All other aspects of the impacted products (form, fit, function) will remain unchanged.		
	Before Change Description	After Change Description
Mold Compound	SI7200DX2; Supplier: Samsung SDI	KTMC1050GFB, Supplier : KCC
Mold Compound	SG8200DL; Supplier: Samsung SDI	KTMC1050GFB, Supplier : KCC

**Reliability Data Summary:****QV DEVICE NAME:** KSC5603DTU (PTI : FD)**RMS** : U56675**PACKAGE** : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +110°C, RH=85%, bias = 80% of rated BV or 100V max	264 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

QV DEVICE NAME: FDP12N60NZ (PTI : FA)**RMS** : U56667**PACKAGE** : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

QV DEVICE NAME: FDP020N06B (PTI : FA)**RMS** : U56664**PACKAGE** : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10



QV DEVICE NAME: FDP8440 (PTI : FA)

RMS : U56665

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

QV DEVICE NAME: FCP104N60 (PTI : FA)

RMS : U56670, U60440

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

QV DEVICE NAME: FDP8D5N10C (PTI : FA)

RMS : U56671

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +110°C, RH=85%, bias = 80% of rated BV or 100V max	264 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10



QV DEVICE NAME: FDP2D9N12C (PTI : FA)

RMS : U59502

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 100% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

QV DEVICE NAME: HGTP20N60A4 (PTI : FC)

RMS : U56674

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

QV DEVICE NAME: RURP15100_F085P (PTI : FC)

RMS : U56673

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
HAST	JESD22 A110	Temp= +110°C, RH=85% , bias = 80% of rated BV or 100V max	264hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30
Tri-temp		Tri-Temp Characterization, Per 48A		0/90
TR		Thermal Resistance		0/30
CDPA TCDT	AEC Q101, rev D, test 7A (alt)	Custom Destructive Physical Analysis - TC Delamination Test, Post 1000 cyc TC		0/66
CDPA SAT	AEC-006	Post HTRB		0/66
DPA	AEC-Q101-004 Section 4	Destructive Physical Analysis Post TC, HAST, HTRB		0/6
CDPA WP BS	MIL 883E, AEC - 006	Custom Destructive Physical Analysis - Wire Pull, Ball Shear Post TC, HTRB		0/18
CDPA X Section	AEC -006	Post TC, HTRB		0/9
Shift		Shift Analysis for HTRB/HTSL/TC/HAST		Pass



QV DEVICE NAME: FFSP3065B-F085 (PTI : FM)

RMS : U56678

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
HAST	JESD22 A110	Temp= +110°C, RH=85% , bias = 80% of rated BV or 100V max	264hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30
Tri-temp		Tri-Temp Characterization, Per 48A		0/90
TR		Thermal Resistance		0/30
CDPA TCDT	AEC Q101, rev D, test 7A (alt)	Custom Destructive Physical Analysis - TC Delamination Test, Post 1000 cyc TC		0/66
CDPA SAT	AEC-006	Post HTRB		0/66
DPA	AEC-Q101-004 Section 4	Destructive Physical Analysis Post TC, HAST, HTRB		0/6
CDPA WP BS	MIL 883E, AEC - 006	Custom Destructive Physical Analysis - Wire Pull, Ball Shear Post TC, HTRB		0/18
CDPA X Section	AEC -006	Post TC, HTRB		0/9
Shift		Shift Analysis for HTRB/HTSL/TC/HAST		Pass

QV DEVICE NAME: FDP42AN15A0-SB82024A (PTI : F3)

RMS : U56668

PACKAGE : TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTGB	JESD22-A108	Ta = 175°C for 1008 hours, 100% rated Vgs	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
IOL	MIL STD 750, M 1037 AEC Q101	Ta=+25°C, delta Tj=100°C max, Ton=Toff is 3.5min	8572Cyc	0/231
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30
Tri-temp		Tri-Temp Characterization, Per 48A		0/90
TR		Thermal Resistance		0/30
CDPA TCDT	AEC Q101, rev D, test 7A (alt)	Custom Destructive Physical Analysis - TC Delamination Test, Post 1000 cyc TC		0/66
CDPA SAT	AEC-006	Post HTRB,HTGB		0/66
DPA	AEC-Q101-004 Section 4	Destructive Physical Analysis Post TC, HAST, HTRB, HTGB		0/6
CDPA WP BS	MIL 883E, AEC - 006	Custom Destructive Physical Analysis - Wire Pull, Ball Shear Post TC, HTRB, HTGB		0/18
CDPA X Section	AEC -006	Post TC, HTRB, HTGB		0/9
Shift		Shift Analysis for HTRB/HTGB/HTSL/TC/IOL/HAST		Pass

**Electrical Characteristic Summary:**

Electrical characteristics are not impacted.

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
TIP42CTU	KSC5603DTU
KSE44A11TU	KSC5603DTU
KSE44H11TU	KSC5603DTU
FJP13009H2TU	KSC5603DTU
FJP13007H2TU	KSC5603DTU
KSA473YTSTUA	KSC5603DTU
KSC1173YTSTUA	KSC5603DTU
TIP31CTU	KSC5603DTU
KSC5502TU	KSC5603DTU
TIP126TU	KSC5603DTU
TIP147TTU	KSC5603DTU
TIP105TU	KSC5603DTU
KSA473YTU	KSC5603DTU
TIP142TTU	KSC5603DTU
TIP125TU	KSC5603DTU
TIP110TU	KSC5603DTU
TIP112TU	KSC5603DTU
TIP120TU	KSC5603DTU
TIP147T	KSC5603DTU
TIP48TU	KSC5603DTU
TIP121TU	KSC5603DTU
TIP29	KSC5603DTU
TIP49	KSC5603DTU
FJP5554TU	KSC5603DTU
FJP1943RTU	KSC5603DTU
KSD560RTSTU	KSC5603DTU
TIP32ATU	KSC5603DTU
TIP111TU	KSC5603DTU
FJP13007H1TU-F080	KSC5603DTU



KSE13003TH1ATU	KSC5603DTU
FDP12N60NZ	FDP12N60NZ
FDP10N60NZ	FDP12N60NZ
FDP12N50	FDP12N60NZ
FDP12N50NZ	FDP12N60NZ
FDP15N40	FDP12N60NZ
FDP18N20F	FDP12N60NZ
FDP18N50	FDP12N60NZ
FDP19N40	FDP12N60NZ
FDP20N50	FDP12N60NZ
FDP20N50F	FDP12N60NZ
FDP22N50N	FDP12N60NZ
FDP24N40	FDP12N60NZ
FDP26N40	FDP12N60NZ
FDP33N25	FDP12N60NZ
FDP39N20	FDP12N60NZ
FDP51N25	FDP12N60NZ
FDP52N20	FDP12N60NZ
FDP5N50NZ	FDP12N60NZ
FDP5N60NZ	FDP12N60NZ
FDP61N20	FDP12N60NZ
FDP7N50	FDP12N60NZ
FDP7N60NZ	FDP12N60NZ
FDP8N50NZ	FDP12N60NZ
FQP10N20C	FDP12N60NZ
FQP11P06	FDP12N60NZ
FQP12P10	FDP12N60NZ
FQP12P20	FDP12N60NZ
FQP13N06L	FDP12N60NZ
FQP13N10	FDP12N60NZ
FQP13N10L	FDP12N60NZ
FQP13N50	FDP12N60NZ
FQP14N30	FDP12N60NZ
FQP15P12	FDP12N60NZ
FQP16N25	FDP12N60NZ
FQP16N25C-F105	FDP12N60NZ



FQP17N40	FDP12N60NZ
FQP17P06	FDP12N60NZ
FQP17P10	FDP12N60NZ
FQP19N20	FDP12N60NZ
FQP19N20C	FDP12N60NZ
FQP19N20-T	FDP12N60NZ
FQP20N06	FDP12N60NZ
FQP20N06L	FDP12N60NZ
FQP22N30	FDP12N60NZ
FQP24N08	FDP12N60NZ
FQP27N25	FDP12N60NZ
FQP27P06	FDP12N60NZ
FQP2N40-F080	FDP12N60NZ
FQP2N60C	FDP12N60NZ
FQP2N80	FDP12N60NZ
FQP2N90	FDP12N60NZ
FQP2P40-F080	FDP12N60NZ
FQP30N06	FDP12N60NZ
FQP30N06L	FDP12N60NZ
FQP32N20C	FDP12N60NZ
FQP33N10	FDP12N60NZ
FQP34N20	FDP12N60NZ
FQP3N30	FDP12N60NZ
FQP3N50C-F080	FDP12N60NZ
FQP3N60C	FDP12N60NZ
FQP3N80C	FDP12N60NZ
FQP3P20	FDP12N60NZ
FQP3P50	FDP12N60NZ
FQP44N10	FDP12N60NZ
FQP45N15V2	FDP12N60NZ
FQP46N15	FDP12N60NZ
FQP47P06	FDP12N60NZ
FQP4N20L	FDP12N60NZ
FQP4N80	FDP12N60NZ
FQP4N90C	FDP12N60NZ
FQP4P40	FDP12N60NZ



FQP50N06	FDP12N60NZ
FQP50N06L	FDP12N60NZ
FQP55N10	FDP12N60NZ
FQP5N60C	FDP12N60NZ
FQP65N06	FDP12N60NZ
FQP6N40C	FDP12N60NZ
FQP6N40CF	FDP12N60NZ
FQP6N60C	FDP12N60NZ
FQP6N70	FDP12N60NZ
FQP6N80C	FDP12N60NZ
FQP6N90C	FDP12N60NZ
FQP70N10	FDP12N60NZ
FQP7N20	FDP12N60NZ
FQP7N80C	FDP12N60NZ
FQP7P06	FDP12N60NZ
FQP85N06	FDP12N60NZ
FQP8N80C	FDP12N60NZ
FQP8N90C	FDP12N60NZ
FQP8P10	FDP12N60NZ
FQP9N30	FDP12N60NZ
FQP9N90C	FDP12N60NZ
FQP9P25	FDP12N60NZ
IRF530A	FDP12N60NZ
IRL640A	FDP12N60NZ
MTP3055VL	FDP12N60NZ
NDP6020P	FDP12N60NZ
NDP6060	FDP12N60NZ
NDP6060L	FDP12N60NZ
NDP7060	FDP12N60NZ
SFP9530	FDP12N60NZ
FDPO20N06B-F102	FDP12N60NZ
FDPO23N08B-F102	FDP12N60NZ
FDPO27N08B-F102	FDP12N60NZ
FDPO30N06B-F102	FDP12N60NZ
FDPO32N08B-F102	FDP12N60NZ
FDPO36N10A	FDP12N60NZ



FDP045N10A-F102	FDP12N60NZ
FDP053N08B-F102	FDP12N60NZ
FDP075N15A-F102	FDP12N60NZ
FDP083N15A-F102	FDP12N60NZ
FDP085N10A-F102	FDP12N60NZ
FDP150N10A-F102	FDP12N60NZ
FDP8440	FDP8440
FDP025N06	FDP8440
FDP030N06	FDP8440
FDP032N08	FDP8440
FDP032N08-F102	FDP8440
FDP039N08B-F102	FDP8440
FDP047N08	FDP8440
FDP047N08-F102	FDP8440
FDP047N10	FDP8440
FDP054N10	FDP8440
FDP090N10	FDP8440
FDP100N10	FDP8440
FDP120N10	FDP8440
FDP150N10	FDP8440
FDP6030BL	FDP8440
FDP7030BL	FDP8440
FDP8030L	FDP8440
FDP8447L	FDP8440
FDP8860	FDP8440
FDP8870	FDP8440
FDP8874	FDP8440
FDP8880	FDP8440
FDP8896	FDP8440
FCP104N60	FCP104N60
FCP099N60E	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
FCP380N60	FCP104N60
FCP380N60E	FCP104N60
FCP4N60	FCP104N60
FCP600N60Z	FCP104N60
FCP7N60	FCP104N60
FCP9N60N	FCP104N60
FCP9N60N-F102	FCP104N60
FDP8D5N10C	FDP8D5N10C
FDP2D3N10C	FDP8D5N10C
FDP4D5N10C	FDP8D5N10C
FDP2D9N12C	FDP2D9N12C
FFP08D60L2	RURP15100-F085P
FFP08H60STU	RURP15100-F085P
FFP08S60SNTU	RURP15100-F085P
FFP08S60STU	RURP15100-F085P



FFP15S60STU	RURP15100-F085P
FFP30S60STU	RURP15100-F085P
ISL9K460P3	RURP15100-F085P
ISL9R1560P2	RURP15100-F085P
ISL9R3060P2	RURP15100-F085P
ISL9R860P2	RURP15100-F085P
RHRP15120	RURP15100-F085P
RHRP15120-F102	RURP15100-F085P
RHRP1560	RURP15100-F085P
RHRP1560-F102	RURP15100-F085P
RHRP30120	RURP15100-F085P
RHRP30120-F102	RURP15100-F085P
RHRP3060	RURP15100-F085P
RHRP3060-F102	RURP15100-F085P
RHRP8120	RURP15100-F085P
RHRP8120-F102	RURP15100-F085P
RHRP860	RURP15100-F085P
RHRP860-F102	RURP15100-F085P
RURP1560	RURP15100-F085P
RURP3060	RURP15100-F085P
RURP8100	RURP15100-F085P
RURP860	RURP15100-F085P
HGTP20N60A4	HGTP20N60A4
FGP10N60UNDF	HGTP20N60A4
FGP15N60UNDF	HGTP20N60A4
FGP20N60UFDTU	HGTP20N60A4
FGP5N60LS	HGTP20N60A4
HGTP12N60A4D	HGTP20N60A4
HGTP12N60C3D	HGTP20N60A4
HGTP3N60A4	HGTP20N60A4
HGTP5N120BND	HGTP20N60A4
HGTP7N60A4	HGTP20N60A4
HGTP7N60A4-F102	HGTP20N60A4
SGP10N60RUFDTU	HGTP20N60A4
SGP23N60UFDTU	HGTP20N60A4
SGP23N60UFTU	HGTP20N60A4



FFSP05120A	FFSP3065B-F085
FFSP0665A	FFSP3065B-F085
FFSP08120A	FFSP3065B-F085
FFSP0865A	FFSP3065B-F085
FFSP10120A	FFSP3065B-F085
FFSP1065A	FFSP3065B-F085
FFSP1265A	FFSP3065B-F085
FFSP15120A	FFSP3065B-F085
FFSP1665A	FFSP3065B-F085
FFSP20120A	FFSP3065B-F085
FFSP2065A	FFSP3065B-F085
FFSP3065A	FFSP3065B-F085
FFSP0465A	FFSP3065B-F085
FFSP1065B	FFSP3065B-F085
FFSP2065B	FFSP3065B-F085
FFSP3065B	FFSP3065B-F085
FFSP0665B	FFSP3065B-F085
FFSP0865B	FFSP3065B-F085
BUZ11-NR4941	FDP42AN15A0-SB82024A
FDP038AN06A0	FDP42AN15A0-SB82024A
FDPO38AN06A0-F102	FDP42AN15A0-SB82024A
FDP047AN08A0	FDP42AN15A0-SB82024A
FDPO47AN08A0-F102	FDP42AN15A0-SB82024A
FDP047AN08A0-G	FDP42AN15A0-SB82024A
FDP050AN06A0	FDP42AN15A0-SB82024A
FDP060AN08A0	FDP42AN15A0-SB82024A
FDP070AN06A0	FDP42AN15A0-SB82024A
FDP16AN08A0	FDP42AN15A0-SB82024A
FDP2532	FDP42AN15A0-SB82024A
FDP2552	FDP42AN15A0-SB82024A
FDP2572	FDP42AN15A0-SB82024A
FDP2614	FDP42AN15A0-SB82024A
FDP2710	FDP42AN15A0-SB82024A
FDP3632	FDP42AN15A0-SB82024A
FDP3651U	FDP42AN15A0-SB82024A
FDP3652	FDP42AN15A0-SB82024A



FDP3672	FDP42AN15A0-SB82024A
FDP3682	FDP42AN15A0-SB82024A
FDP42AN15A0	FDP42AN15A0-SB82024A
FDP55N06	FDP42AN15A0-SB82024A
FDP5800	FDP42AN15A0-SB82024A
FDP65N06	FDP42AN15A0-SB82024A
FDP75N08A	FDP42AN15A0-SB82024A
FDP80N06	FDP42AN15A0-SB82024A
HUF75321P3	FDP42AN15A0-SB82024A
HUF75332P3	FDP42AN15A0-SB82024A
HUF75339P3	FDP42AN15A0-SB82024A
HUF75344P3	FDP42AN15A0-SB82024A
HUF75345P3	FDP42AN15A0-SB82024A
HUF75542P3	FDP42AN15A0-SB82024A
HUF75545P3	FDP42AN15A0-SB82024A
HUF75639P3	FDP42AN15A0-SB82024A
HUF75639P3-F102	FDP42AN15A0-SB82024A
HUF75645P3	FDP42AN15A0-SB82024A
HUF75842P3	FDP42AN15A0-SB82024A
HUF76423P3	FDP42AN15A0-SB82024A
RFP12N10L	FDP42AN15A0-SB82024A
RFP50N06	FDP42AN15A0-SB82024A
RFP70N06	FDP42AN15A0-SB82024A

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。



最終製品 / プロセス変更通知

文書番号# : FPCN22647XJ

発行日 : 28 October 2019

変更件名:	TO-22 における Samsung SDI 製モールドコンパウンド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 February 2020 またはお客様からの承認が得られた場合はそれ以前。	
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:	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。 サンプル納入時は、依頼日、数量、特別梱包材/ラベル条件によって異なります。	
追加の信頼性データ:	お客さまの地域のオン・セミコンダクター営業所または <Lake.Wang@onsemi.com> にお問い合わせください。	
通知種別:	これは、お客様宛の最終製品 / プロセス変更通知 (FPCN) です。FPCN は、変更実施の 90 日前に発行されます。 オン・セミコンダクターは、この通知の送付から 30 日以内に書面による問い合わせがない限り、この変更が承諾されたものとみなします。お問い合わせは、<PCN.Support@onsemi.com> 宛てにお願いします。	
変更部品の識別:	日付コード 1945 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 Suzhou, China	外部製造工場 / 下請業者拠点: なし
説明および目的: オン・セミコンダクターは、本 FPCN に列記された製品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、SDI モールドコンパウンドのいくつかについてサムソンから受けた生産終了の通知によるものです。SDI モールドコンパウンドの廃止によって、オン・セミコンダクターでは既存の材料の供給が限定されるようになるため、場合によっては、このことによって通常の変更通知期間が不可能になる場合があります。対象となる製品の他の特徴 (形状、適合性、機能) には変更はありません。		
	変更前の表記	変更後の表記
モールド・コンパウンド	SI7200DX2; Supplier: Samsung SDI	KTMC1050GFB, Supplier : KCC
モールド・コンパウンド	SG8200DL; Supplier: Samsung SDI	KTMC1050GFB, Supplier : KCC



信頼性データの要約:

デバイス名: KSC5603DTU (PTI : FD)RMS : U56675パッケージ : TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +110°C, RH=85%, bias = 80% of rated BV or 100V max	264 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

デバイス名: FDP12N60NZ (PTI : FC)RMS : U56667パッケージ : TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% of max rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, 96hr, bias = 80% of rated V or 100V max	96hr	0/77
RSH	JESD22 B106	265 C Immersion, 10 sec dwell	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-temp		Tri-Temp Characterization, Per 48A		0/30
TR		Thermal Resistance		0/10
PD		Thermal Resistance Per Case Outline		0/10

デバイス名: FDP020N06B (PTI : FC)RMS : U56664パッケージ : TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

デバイス名: FDP8440 (PTI : FA)RMS : U56665パッケージ : TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

デバイス名: FCP104N60 (PTI : FA)RMS : U56670, U60440パッケージ : TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

デバイス名: FDP8D5N10C (PTI : FA)RMS : U56671パッケージ : TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +110°C, RH=85%, bias = 80% of rated BV or 100V max	264 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10



デバイス名: FDP2D9N12C (PTI : FA)

RMS : U59502

パッケージ: TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 175°C for 1008 hours, 100% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 175 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 175°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

デバイス名: HGTP20N60A4 (PTI : FC)

RMS : U56674

パッケージ: TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	TA = 150°C for 1008 hours, 80% rated	1008 hrs	0/77
HTGB	JESD22-A108	TA = 150 °C for 1008 hours, 100% rated Vgs	1008 hrs	0/77
HTSL	JESD22-A103	TA = 150°C for 1008 hours	1008 hrs	0/77
TC	JESD22-A104	Temp = -55°C to +150°C for 1000 cycles	1000 cyc	0/77
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96 hrs	0/77
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/10
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/15
Tri-Temp		Tri-Temperature, Per 48A		0/30
TR		Provide thermal comparison data to ensure spec compliance		0/10
PD		Per Case Outline		0/10

デバイス名: RURP15100 F085P (PTI : FC)

RMS : U56673

パッケージ: TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
HAST	JESD22 A110	Temp= +110°C, RH=85%, bias = 80% of rated BV or 100V max	264hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30
Tri-temp		Tri-Temp Characterization, Per 48A		0/90
TR		Thermal Resistance		0/30
CDPA TCDT	AEC Q101, rev D, test 7A (alt)	Custom Destructive Physical Analysis - TC Delamination Test, Post 1000 cyc TC		0/66
CDPA SAT	AEC-006	Post HTRB		0/66
DPA	AEC-Q101-004 Section 4	Destructive Physical Analysis Post TC, HAST, HTRB		0/6
CDPA WP BS	MIL 883E, AEC - 006	Custom Destructive Physical Analysis - Wire Pull, Ball Shear Post TC, HTRB		0/18
CDPA X Section	AEC -006	Post TC, HTRB		0/9
Shift		Shift Analysis for HTRB/HTSL/TC/HAST		Pass



デバイス名: FFSP3065B-F085 (PTI : FM)

RMS : U56678

パッケージ: TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
HAST	JESD22 A110	Temp= +110°C, RH=85%, bias = 80% of rated BV or 100V max	264hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30
Tri-temp		Tri-Temp Characterization, Per 48A		0/90
TR		Thermal Resistance		0/30
CDPA TCDT	AEC Q101, rev D, test 7A (alt)	Custom Destructive Physical Analysis - TC Delamination Test, Post 1000 cyc TC		0/66
CDPA SAT	AEC-006	Post HTRB		0/66
DPA	AEC-Q101-004 Section 4	Destructive Physical Analysis Post TC, HAST, HTRB		0/6
CDPA WP BS	MIL 883E, AEC - 006	Custom Destructive Physical Analysis - Wire Pull, Ball Shear Post TC, HTRB		0/18
CDPA X Section	AEC -006	Post TC, HTRB		0/9
Shift		Shift Analysis for HTRB/HTSL/TC/HAST		Pass

デバイス : FDP42AN15A0-SB82024A (PTI : F3)

RMS : U56668

パッケージ: TO-220

テスト	仕様	条件	間隔	結果
HTRB	JESD22-A108	Ta = 175°C for device, bias = 100% of max rated	1008 hrs	0/231
HTGB	JESD22-A108	Ta = 175°C for 1008 hours, 100% rated Vgs	1008 hrs	0/231
HTSL	JESD22-A103	Ta = 175°C for 1008 hours	1008 hrs	0/231
TC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles	1000 cyc	0/231
IOL	MIL STD 750, M 1037 AEC Q101	Ta=+25°C, delta Tj=100°C max, Ton=Toff is 3.5min	8572Cyc	0/231
HAST	JESD22 A110	Temp= +130°C, RH=85%, bias = 80% of rated BV or 100V max	96hrs	0/231
RSH	JESD22-B106	265 °C Immersion and 10s	10s	0/30
SD	J STD 002	Ta=245°C 5 sec dwell	5s	0/45
PD		Per Case Outline		0/30
Tri-temp		Tri-Temp Characterization, Per 48A		0/90
TR		Thermal Resistance		0/30
CDPA TCDT	AEC Q101, rev D, test 7A (alt)	Custom Destructive Physical Analysis - TC Delamination Test, Post 1000 cyc TC		0/66
CDPA SAT	AEC-006	Post HTRB, HTGB		0/66
DPA	AEC-Q101-004 Section 4	Destructive Physical Analysis Post TC, HAST, HTRB, HTGB		0/6
CDPA WP BS	MIL 883E, AEC - 006	Custom Destructive Physical Analysis - Wire Pull, Ball Shear Post TC, HTRB, HTGB		0/18
CDPA X Section	AEC -006	Post TC, HTRB, HTGB		0/9
Shift		Shift Analysis for HTRB/HTGB/HTSL/TC/IOL/HAST		Pass



電気的特性の要約: 電気的特性への影響はありません。

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
TIP42CTU	KSC5603DTU
KSE44A11TU	KSC5603DTU
KSE44H11TU	KSC5603DTU
FJP13009H2TU	KSC5603DTU
FJP13007H2TU	KSC5603DTU
KSA473YTSTUA	KSC5603DTU
KSC1173YTSTUA	KSC5603DTU
TIP31CTU	KSC5603DTU
KSC5502TU	KSC5603DTU
TIP126TU	KSC5603DTU
TIP147TTU	KSC5603DTU
TIP105TU	KSC5603DTU
KSA473YTU	KSC5603DTU
TIP142TTU	KSC5603DTU
TIP125TU	KSC5603DTU
TIP110TU	KSC5603DTU
TIP112TU	KSC5603DTU
TIP120TU	KSC5603DTU
TIP147T	KSC5603DTU
TIP48TU	KSC5603DTU
TIP121TU	KSC5603DTU
TIP29	KSC5603DTU
TIP49	KSC5603DTU
FJP5554TU	KSC5603DTU
FJP1943RTU	KSC5603DTU
KSD560RTSTU	KSC5603DTU
TIP32ATU	KSC5603DTU
TIP111TU	KSC5603DTU
FJP13007H1TU-F080	KSC5603DTU
KSE13003TH1ATU	KSC5603DTU



FDP12N60NZ	FDP12N60NZ
FDP10N60NZ	FDP12N60NZ
FDP12N50	FDP12N60NZ
FDP12N50NZ	FDP12N60NZ
FDP15N40	FDP12N60NZ
FDP18N20F	FDP12N60NZ
FDP18N50	FDP12N60NZ
FDP19N40	FDP12N60NZ
FDP20N50	FDP12N60NZ
FDP20N50F	FDP12N60NZ
FDP22N50N	FDP12N60NZ
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最終製品 / プロセス変更通知

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FDP3682	FDP42AN15A0-SB82024A
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