



Title of Change:	SSOT3 (SOT23 3L) Capacity expansion of Assembly and Test operations of ON Cebu to ON Seremban, Malaysia.
Proposed First Ship date:	14 Oct 2020 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Joan.Abigail.Enriquez@onsemi.com
PCN Samples Contact:	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. 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 Aileen.Allado@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
Marking of Parts/ Traceability of Change:	Customer may receive the parts from ON Seremban, Malaysia from month of October 2020 onwards once FPCN expire.
Change Category:	Assembly Change, Test Change
Change Sub-Category(s):	Manufacturing Site Addition, Material Change, Shipping/Packaging/Marking

Sites Affected:

ON Semiconductor Sites	External Foundry/Subcon Sites
ON Semiconductor Cebu, Philippines	None
ON Semiconductor Seremban, Malaysia	

Description and Purpose:

This Product Change Notification is to announce that ON Semiconductor is expanding Assembly and Test Operations of Cebu former Fairchild Semiconductor for SSOT3 package to ON Seremban, Malaysia.

- No change on existing OPN. There will be two separate BOMs for ON Cebu, Philippines and ON Seremban, Malaysia.
- Marking date code & Tape/Reel & Label follow with ON Semiconductor standard format.
- Case Outline is compatible with existing SSOT3 solder footprint.
- These products will continue being Pb-free, Halide free and RoHS compliant. Qualification tests are designed to show that the reliability of the impacted devices will continue to meet or exceed ON Semiconductor standards.

	Before Change Description		After Change Description	
	ON Cebu, Philippines	ON Cebu, Philippines	ON Seremban, Malaysia	ON Seremban, Malaysia
Assembly & Test site	ON Cebu, Philippines	ON Cebu, Philippines	ON Seremban, Malaysia	ON Seremban, Malaysia
Mold Compound	CK5000(PMC)	CK5000(PMC)	G600FB	G600FB
Marking	Ex-Fcs format marking	ON Format marking	ON Format marking	ON Format marking

**Reliability Data Summary:**

QV DEVICE NAME: FDN304P

RMS: F56286

PACKAGE: SOT23 3L CU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150 °C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta = 150 °C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25 °C, delta Tj = 100 °C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta = -55 °C to + 150 °C	1000 cyc	0/77
HAST	JESD22-A110	130 °C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130 °C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 10

QV DEVICE NAME: FDN359AN

RMS: F56306

PACKAGE: SOT23 3L CU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150 °C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta = 150 °C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25 °C, delta Tj = 100 °C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta = -55 °C to + 150 °C	1000 cyc	0/77
HAST	JESD22-A110	130 °C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130 °C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 10



QV DEVICE NAME: FDN337N

RMS: F56301

PACKAGE: SOT23 3L CU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150 °C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta= 150 °C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 10

QV DEVICE NAME: FDN357N

RMS: F56331

PACKAGE: SOT23 3L AU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150 °C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta= 150 °C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 10



QV DEVICE NAME: FDN359BN

RMS: F56333

PACKAGE: SOT23 3L CU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150 °C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta= 150 °C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 10

QV DEVICE NAME: FDN86246

RMS: F55512

PACKAGE: SOT23 3L AU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150 °C, 80% max rated V	1008 hrs	0/77
HTGB	JESD22-A108	Ta= 150 °C, 100% max rated Vgss	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 10



QV DEVICE NAME: FDN86246

RMS: F55512

PACKAGE: SOT23 3L AU SNGL HPBF

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta= 150 °C, 80% max rated V	1008 hrs	0/154
HTGB	JESD22-A108	Ta= 150 °C, 100% max rated Vgss	1008 hrs	0/154
HTSL	JESD22-A103	Ta= 150 °C	1008 hrs	0/154
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/154
TC	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/154
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/154
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/154
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/ 20

Electrical Characteristics Summary:

The DC tri-temp and ESD performance meet datasheet specification. Detail of Electrical characterization result is available upon request.

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
FDN304PZ	FDN304P
FDN339AN	FDN304P
FDN342P	FDN304P
FDN5630	FDN304P
FDN359AN	FDN304P ,FDN359AN
FDN5618P	FDN304P ,FDN359AN
FDN337N	FDN357N , FDN337N
FDN359BN	FDN359BN
FDN028N20	FDN537N
FDN537N	FDN537N
FDN8601	FDN86246



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDN304PZ		FDN304P	NA	
FDN339AN		FDN304P	NA	
FDN342P		FDN304P	NA	
FDN5630		FDN304P	NA	
FDN359AN		FDN304P ,FDN359AN	NA	
FDN5618P		FDN304P ,FDN359AN	NA	
FDN337N		FDN357N , FDN337N	NA	
FDN359BN		FDN359BN	NA	
FDN028N20		FDN537N	NA	
FDN537N		FDN537N	NA	
FDN8601		FDN86246	NA	