



Initial Product/Process Change Notification

Document #: IPCN24972X

Issue Date: 07 Oct 2022

Title of Change:	Qualification of SC70 devices second source assembly and FT at subcon HANA-JX
Proposed First Ship date:	01 Mar 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Thomas.Chen@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. 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.
Type of Notification:	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 >
Marking of Parts/ Traceability of Change:	The affected products will be identified with date code
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Material Change, Manufacturing Site Transfer

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

HANA Microelectronics, China

Description and Purpose:

onsemi is qualifying second source assembly and FT at subcon HANA_JX for affected SC70 devices.

	From	To
Assembly Site	onsemi Cebu	onsemi Cebu Hana-JX
FT site	onsemi Cebu	onsemi Cebu Hana-JX
LeadFrame	LF SC 88 6L C194 STAMPED	onsemi Cebu - LF SC 88 6L C194 STAMPED Hana-JX - LF SC88 6L 70X86 PPF (ASM)
LeadFrame material	C194	onsemi Cebu – C194 Hana-JX - A194
Die Attach	DA EPXY HE ABLESTIK 84-1LMISR4	onsemi Cebu – DA EPXY HE ABLESTIK 84-1LMISR4 Hana-JX - DA EPOXY ABLESTICK 2200D (Henkel)
Mold Compound	MC GREEN PA CK5000A 13MMX3.9G	onsemi Cebu - MC GREEN PA CK5000A 13MMX3.9G Hana-JX - MC SUMITOMO G600 HF

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

Qualification Plan:

QV DEVICE NAME : FSA5157P6X

RMS : F83036

PACKAGE : SC70

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
HTOL	JA108	TA=150C, Vin=Vcc=5V	1008 hrs
PC	J-STD-020A, JESD22-A113	MSL 1 @ 260°C	-
TC	JESD22-A104	Ta= -65°C to +150°C	500 cycles
UHAST	JESD22-A118	Temp=130°C, 85% RH	96 hrs
SD	J STD 002	Ta=245C 5sec	-

QV DEVICE NAME : FSA4157P6X

RMS : F83035

PACKAGE : SC70

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
HTOL	JA108	TA=150C, Vin=Vcc=5V	1008 hrs
PC	J-STD-020A, JESD22-A113	MSL 1 @ 260°C	-
TC	JESD22-A104	Ta= -65°C to +150°C	500 cycles
UHAST	JESD22-A118	Temp=130°C, 85% RH	96 hrs
SD	J STD 002	Ta=245C 5sec	-

Estimated date for qualification completion: 2 December 2022

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
FSA4157P6X	FSA4157P6X
FSA4157AP6X	FSA4157P6X
FSA5157P6X	FSA5157P6X
FSA4159P6X	FSA4157P6X

Appendix A: Changed Products

PCN#: IPCN24972X
Issue Date: Oct 06, 2022

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FSA4157P6X		FSA4157P6X	NA	
FSA5157P6X		FSA5157P6X	NA	
FSA4159P6X		FSA4157P6X	NA	
FSA4157AP6X		FSA4157P6X	NA	