



Initial Product/Process Change Notification

Document #: IPCN23840YO

Issue Date: 10 May 2021

Title of Change:	Bump Site Transfer from FCI to ASE-KH
Proposed First Ship date:	22 Mar 2022 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office
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.
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:	Parts using the ASE-KH bump flow will be identified by a new plant code
Change Category:	Assembly Change, Bump Site Change
Change Sub-Category(s):	Manufacturing Site Transfer

Sites Affected:

ON Semiconductor Sites	External Foundry/Subcon Sites
None	ASEKH, Taiwan (Kaohsiung)
	Flipchip International, USA

Description and Purpose:

	Before Change Description	After Change Description
Bump and Backend Site	Flipchip International, USA	ASEKH, Taiwan (Kaohsiung)
Structure	2P2M	2P2M
P1 Material	PBO(CRC-2348)	HD4000E
M1 Material	TiAlTi	Cu
M2 Material	AlNiVCu	Cu
Solderball Material	EUT	SAC405

**Qualification Plan:**QV DEVICE NAME: 22389-001-XDS

RMS: TBD

PACKAGE: WLCSP/FC GQFN

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta= 125°C, 100% max rated VDD	2016 hrs
HTSL	JESD22-A103	Ta= 125°C	1008 hrs
ELFR	JESD22-A108	Ta= 125°C	24 hrs
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias max rated	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	

Estimated date for qualification completion: 14 Dec 2021

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
BR281W31A101V1G	22389-001-XDS



Appendix A: Changed Products

PCN#: IPCN23840YO
Issue Date: May 09, 2021

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
BR281W31A101V1G		22389-001-XDS	NA	