



Final Product/Process Change Notification

Document #:FPCN24526XE

Issue Date:17 Jul 2023

Title of Change:	Qualification of Alternate Lead Frame with C7025 base material for UDFN6 1.8x2
Proposed First Ship date:	22 Oct 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Cyrus.Velasquez@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.
Additional Reliability Data:	Contact your local onsemi Sales Office or Andy.Esteva@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. onsemi 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:	Product traceability will be maintained by date code
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Tarlac, Philippines	None

Description and Purpose:

onsemi is announcing the qualification of C7025 Base Material and adding HDS (HAESUNG DS CO., Ltd) supplier for QFN devices in onsemi Tarlac, Philippines. This change is implemented to mitigate potential supply disruption; customers are encouraged to urgently review this change in order to minimize any potential impact to their supply chain. Upon implementation of this change, any of the qualified suppliers will be used to support demand.

	From	To	
Lead frame Supplier	DCI	DCI	HDS
Base Material	EFTEC64 1/2H	EFTEC64 1/2H	C7025 1/2H
Plating type	Ni, Pd, Au Ag	Ni, Pd, Au Ag	Ni, Pd, Au Ag
Roughened	Non-rough	Non-rough	Non-rough

Note: There is no product marking change as a result of this change



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Reliability Data Summary:

QV DEVICE NAME: NSPU5132MUTBG

RMS: S83687

PACKAGE: UDFN6 1.8x2.0

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta = Max rate storage temp for device	1008 hrs	0/231
TC	JESD22-A104	Ta = - 65°C to +150°C	500 cyc	0/231
uHAST	JESD22-A118	130°C, 85% RH, ~18.8psig	96 hrs	0/231
PC	J STD 020 , JESD22-A113	MSL 1 @ 260 °C		0/462
RSH	JESD22- B106	Ta = 268C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/45
PD	JESD2-B100			0/30

Electrical Characteristics 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
NSPU5132MUTBG	NSPU5132MUTBG
NSPU5201MUTBG	NSPU5132MUTBG

Appendix A: Changed Products

PCN#: FPCN24526XE
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DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NSPU5132MUTBG		NSPU5132MUTBG		
NSPU5201MUTBG		NSPU5132MUTBG		