



## Final Product/Process Change Notification

Document #:FPCN25070XA

Issue Date:19 May 2023

<b>Title of Change:</b>	Qualification of new lead frame with A194ESH base material for specific QFN devices in onsemi Seremban, Malaysia.
<b>Proposed First Ship date:</b>	26 Aug 2023 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:YongChin.Wong@onsemi.com">YongChin.Wong@onsemi.com</a>
<b>PCN Samples Contact:</b>	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.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:MohdAzizi.Azman@onsemi.com">MohdAzizi.Azman@onsemi.com</a>
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	Product traceability will be maintained by date code.
<b>Change Category:</b>	Assembly Change
<b>Change Sub-Category(s):</b>	Material Change
<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
onsemi Seremban, Malaysia	None

### Description and Purpose:

onsemi is announcing the qualification of new lead frame with A194ESH base material for QFN devices in onsemi Seremban, Malaysia. 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, the qualified supplier will be used to support demand.

	From	To
Leadframe supplier	DCI	AAMI
Base Material	EFTEC64T	A194ESH
Plating Type	Ni, Pd, AuAg	Ni, Pd, Au
Roughed	Non-Roughed	Roughed

**Note:** There is no product marking change and product traceability will be maintained by lot and date code.



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### Reliability Data Summary:

QV DEVICE NAME: TVS8501V6MUT5G (Supplier: AAMI)

PACKAGE: UDFN-8

RRF: 87182

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/92
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/22
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc	0/90
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/90
RSH	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only		0/10
SD	JSTD002	Ta = 245°C, 5 sec		0/15

### 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
NSPM2052MUT5G	TVS8501V6MUT5G
TVS8501V6MUT5G	TVS8501V6MUT5G
TVS8501V5MUT5G	TVS8501V6MUT5G
NSPM0061MUT5G	TVS8501V6MUT5G