

Title of Change:	Qualification of new lead frame with A194ESH base material for specific QFN Devices in onsemi Seremban, Malaysia.	
Proposed Changed Material First Ship Date:	11 May 2024 or earlier if approved by customer	
Current Material Last Order Date:	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
Current Material Last Delivery Date:	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
Product Category:	Active components – Integrated circuits	
Contact information:	Contact your local onsemi Sales Office or YongChin.Wong@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Sample Availability Date:	N/A	
PPAP Availability Date:	N/A	
Additional Reliability Data:	Contact your local onsemi Sales Office or MohdAzizi.Azman@onsemi.com	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .	
Change Category		
Category	Type of Change	
Process - Assembly	Change of direct material supplier, Change of leadframe base material	
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.		

Reason / Motivation for Change:	Process/Materials Change,Source/Supply/Capacity Changes			
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.			
Sites Affected:				
onsemi Sites			External Foundry/Subcon Sites	
onsemi Seremban, Malaysia			None	
Marking of Parts/ Traceability of Change:	Product traceability will be maintained by date code.			
Reliability Data Summary:				
QV DEVICE NAME: CAV25512HU5E-GT3 (Supplier: AAMI) PACKAGE: UDFN-8 RRF: 87243				
Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/22
TC	JESD22-A104	Ta= - 65°C to +150°C	1000 cyc	0/84
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84
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
Refer to the attached AEC1 Pager for more details. To view attachments: 1. Download pdf copy of the PCN to your computer 2. Open the downloaded pdf copy of the PCN 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field 4. Then click on the attached file.				
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 <u>PCN Customized Portal</u>.				
Current Part Number	New Part Number	Qualification Vehicle		
CAV25512HU5E-GT3	NA	CAV25512HU5E-GT3		
CAV24C512HU5EGT3-TE	NA	CAV25512HU5E-GT3		
CAV24C512HU5EGT3	NA	CAV25512HU5E-GT3		

Appendix A: Changed Products

PCN#: FPCN25070ZA
Issue Date: Jun 29, 2023

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
CAV24C512HU5EGT3-TE		CAV25512HU5E-GT3	NA	
CAV24C512HU5EGT3		CAV25512HU5E-GT3	NA	