



Final Product/Process Change Notification

Document #: FPCN24950Z

Issue Date: 16 Feb 2023

Title of Change:	Change in Lead Frame Raw Material and Lead Frame Plating and Finish (silver plating luster).	
Proposed Changed Material First Ship Date:	01 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 – Discrete components	
Contact information:	Contact your local onsemi Sales Office or Takashi.Akiba@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:	15 Dec 2022	
PPAP Availability Date:	16 Feb 2023	
Additional Reliability Data:	Contact your local onsemi Sales Office or Hitoshi.Hoshino@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 leadframe base material, Change of lead frame finishing material / area (internal)	
Description and Purpose:		
<p>The purpose of this FPCN is to inform customers that the Lead Frame (LF) supplier is changing the raw material and Ag plating in order to comply with environmental legal requirements.</p> <p>The Lead Frame (LF) supplier change the bright Ag plating to matte Ag plating. In addition, the raw material change from EFTEC-64 to C194 to align to most current Lead Frame (LF).</p>		
	From	To
Raw Material	EFTEC-64	C194
Plating luster	Bright Ag Plating	Matte Ag Plating
There is no product marking change as a result of this change.		



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Reason / Motivation for Change:	Source/Supply/Capacity Changes Process/Materials Change			
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 Shenzhen, China			None	
Marking of Parts/ Traceability of Change:	Trace by Date Code			
Reliability Data Summary:				
QV DEVICE NAME: NSVF4009SG4T1G PACKAGE: MCPH-4				
Test	Specification	Condition	Interval	Results
PC	J STD 020, JESD22-A113	IR reflow at 260C		0/all
TC-PC	JESD22-A104	Temp = -55°C to +150°C	2000 cycles	0/231
UHAST+ PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours	0/231
NOTE: AEC-1pager is attached.				
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
NSVF4009SG4T1G	N/A	NSVF4009SG4T1G