



Final Product/Process Change Notification

Document #: FPCN24950X

Issue Date: 29 Jan 2023

Title of Change:	Change in Lead Frame Raw Material and Lead Frame Plating and Finish (silver plating luster).	
Proposed First Ship date:	01 May 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Takashi.Akiba@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 Hitoshi.Hoshino@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:	Trace by Date Code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Shenzhen, China	None	
Description and Purpose:		
The purpose of this FPCN is to inform customers that the Lead Frame (LF) supplier is changing the raw material and Ag plating to comply with environmental legal requirements.		
The Lead Frame (LF) supplier change the bright Ag plating to matte Ag plating. In addition, the raw material changes from EFTEC-64 to C194 to align to most current Lead Frame (LF).		
	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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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

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
MCH4009-TL-H	NSVF4009SG4T1G