



Initial Product/Process Change Notification

Document #: IPCN25614X

Issue Date: 28 Sep 2023

Title of Change:	TOLL SiC Leadframe, Die Attach Material, and Plasma Clean/Adhesion Promoter(AP)Coat Removal	
Proposed First Ship date:	11 Apr 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Joseph.Mendoza@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.	
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >	
Marking of Parts/ Traceability of Change:	Affected products will be identified with date code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change, Manufacturing Process Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Cebu, Philippines	None	
Description and Purpose:		
Changes in leadframe, die attach material, and pre-molding step.		
	Before Change Description	After Change Description
LeadFrame	With Selective Ni/NiP plated Die Attach Pad (DAP) and leadposts	With Selective Ni plated leadposts only and bare Cu DAP
Die Attach	95.5PbSn2Ag2.5 solder composition	92.5Pb5Sn2.5Ag solder composition
Pre-molding Step	With Plasma Clean	None
Adhesion Promoter	AP8000	None
There is no product marking change as a result of this change.		



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Qualification Plan:

QV DEVICE NAME: NTBL045N065SC1

RMS: F93035

PACKAGE: TOLL

Test	Specification	Condition	Interval
TC	JESD22-A104	Temp = -55°C to +150°C	1,000 cyc
UHASt	JESD22-A118	Temp = 130°C, RH=85%, ~18.8 psig, Unbiased	96 hrs
PC	J-STD-020, JESD22-A113	MSL 1 @ 260°C	-

Estimated date for qualification completion: **6 December 2023**

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
NTBL045N065SC1	NTBL045N065SC1