Final Product/Process Change Notification

Document #:FPCN25614X

Issue Date: 28 Jan 2024

Title of Change:	TOLL SiC Leadframe, Die Attach Material, and Plasma Clean/Adhesion Promoter (AP)Coat Removal.
Proposed First Ship date:	02 May 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.
Additional Reliability Data:	Contact your local onsemi Sales Office or Aileen.Allado@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:	Affected products will be identified with date code
Change Category:	Assembly Change
Change Sub-Category(s):	Manufacturing Process Change, Material 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.

Reliability Data Summary:

QV DEVICE NAME: NTBL045N065SC1
RMS: F93035
PACKAGE: F385 | CUST8 AL SNGL HPBF

Test	Specification	Condition	Interval	Results
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, for surface mount pkgs only		0/462
Temperature Cycling	JESD22-A104	Ta= -55°C to + 150°C	1000 cyc	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	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
NTBL045N065SC1	NTBL045N065SC1