

Title of Change:	Q0 Case Design Change/Improvement
Proposed First Ship date:	19 Feb 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Way-Shan.Yong@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 Harper.Pan@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:	No change
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites

onsemi Shenzhen, China

External Foundry/Subcon Sites

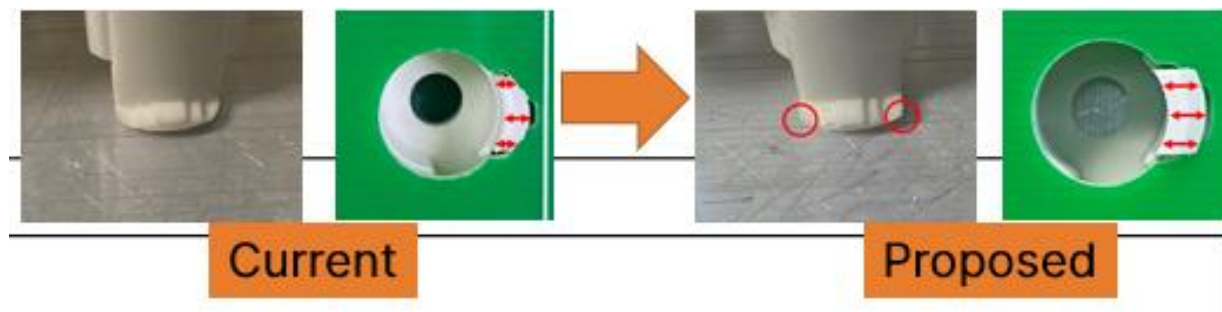
None

Description and Purpose:

This FPCN announces the change of Q0 package plastic case design to improve plastic case robustness.

Upon the expiration of this PCN, modules will be produced with new plastic case materials. These products will be qualified to industrial requirements.

Material to be changed	Before Change Description	After Change Description
Module plastic case	Current plastic case, supplier Nanya	New plastic case with clip width from BASF



There is no product marking change as a result of this change.



Final Product/Process Change Notification

Document #:FPCN25089X

Issue Date:14 Nov 2022

Reliability Data Summary:

QV DEVICE NAME: NXH40B120MNQ0SNG (Power Integrated Module)

PACKAGE: PIM

RMS: U87006

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta=125°C	504 hrs	0/18
TC	JESD22-A104	Ta = -40°C to +125°C	200 cyc	0/18

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
NXH100B120H3Q0SG-R	NXH80B120MNQ0SNG
NXH100B120H3Q0SG	NXH80B120MNQ0SNG
NXH100B120H3Q0STG-R	NXH80B120MNQ0SNG
NXH100B120H3Q0STG	NXH80B120MNQ0SNG
NXH40B120MNQ0SNG	NXH80B120MNQ0SNG
NXH80B120H2Q0SG	NXH80B120MNQ0SNG
NXH80B120H2Q0SNG	NXH80B120MNQ0SNG
NXH80B120MNQ0SNG-R	NXH80B120MNQ0SNG
NXH80B120MNQ0SNG	NXH80B120MNQ0SNG