onsemi

Final Product/Process Change Notification Document #:FPCN25089X Issue Date:14 Nov 2022

Title of Change:		Q0 Case Design Change	e/Improver	nent			
Proposed First Ship date:		19 Feb 2023 or earlier i	if approved by customer				
Contact Information: Contact your local of			nsemi 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			nsemi Sales Office or Harper.Pan@onsemi.com				
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are is days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 delivery of this notice. To do so, contact PCN.Support@onsemi.com			ne change. Iccepted, unless an inquiry is made in writing within 30 days of			
Marking of Parts/ Traceability of Change: No change							
Change Category: Assembly Change							
Change Sub-Category(s): Material Change		Material Change					
Sites Affected:							
onsemi Sites External Foundry/Subcon Sites							
onsemi Shenzhen, China			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	d Before Change Description			After Change Description			
Module plastic case	Current plastic case, supplier Nanya		пуа	New plastic case with clip width from BASF			

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

Current

Proposed



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
тс	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		

Appendix A: Changed Products

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NXH100B120H3Q0SG		NXH80B120MNQ0SNG		
NXH100B120H3Q0STG		NXH80B120MNQ0SNG		
NXH40B120MNQ0SNG		NXH80B120MNQ0SNG		