



## Final Product/Process Change Notification

Document #:FPCN23978X

Issue Date:12 Nov 2021

<b>Title of Change:</b>	Change Emboss Clip to Flat Clip on SO8 FL package in ATM
<b>Proposed First Ship date:</b>	19 Feb 2022 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:guokun.yeng@onsemi.com">guokun.yeng@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. 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.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Robert.Baran@onsemi.com">Robert.Baran@onsemi.com</a>
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	No change on marking. Effective datecode will provided after FPCN approved by customer.
<b>Change Category:</b>	Assembly Change
<b>Change Sub-Category(s):</b>	Material Change

### Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	AMKOR, Malaysia

### Description and Purpose:

This Product Change Notification, which is intended to change SO8FL clip from emboss design to flat clip design in Amkor Malaysia assembly site. The purpose of this change is for continuous quality and reliability improvement in the listed part number below.

	Before Change Description	After Change Description
Clip	Emboss Design (C19210)	Flat Clip Design (C19210)

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

### Reliability Data Summary:

QV DEVICE NAME: NTMFS4C020NT1G

RMS: S77367

PACKAGE: SO8FL (DFN 5 5x6

Test	Specification	Condition	Interval	Results
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 mins	15000 cyc	0/231
TC	JESD22-A104	Ta= -55°C to +150°C, mount on board	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90



## Final Product/Process Change Notification

Document #:FPCN23978X

Issue Date:12 Nov 2021

### 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
NTMFS0D9N03CGT1G	NTMFS4CS20NT1G
NTMFS0D8N03CT1G	NTMFS4CS20NT1G
NTMFS4C020NT1G	NTMFS4CS20NT1G