



Initial Product/Process Change Notification

Document #: IPCN24918X

Issue Date: 29 Sep 2022

Title of Change:	Qualification of Amkor Technology Malaysia (ATM) for the Assembly and Test for PT8 product
Proposed First Ship date:	01 May 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or sazielasenin@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:	Material will be traceable with onsemi lot trace code and tracking
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	AMKOR, Malaysia

Description and Purpose:

This Product Change Notification announces that onsemi is expanding its manufacturing operation of MOSFET S08FL package PT8 technology at AMKOR Technology, Malaysia.

There is no change to the orderable part number.

	From	To
Assembly Site	onsemi Seremban, Malaysia	onsemi Seremban, Malaysia AMKOR, Malaysia
Test Site	onsemi Seremban, Malaysia	onsemi Seremban, Malaysia AMKOR, Malaysia
Lead Frame	onsemi Seremban - TAMAC4 Cu	onsemi Seremban - TAMAC4 AMKOR - C194 Cu
Clip change	onsemi Seremban – Clip contact area 1.09mm ²	onsemi Seremban - Clip contact area 1.09mm ² AMKOR – Clip contact area 4.07mm ²

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



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Qualification Plan:

QV DEVICE NAME : NTMFS005P03P8ZT1G

RMS # : S83844

PACKAGE: SO8FL

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hrs
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Ta= 150	1008 hrs
LTSL	JESD22-A119	Ta= -40	168 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc
TC	JESD22-A104	Ta= -55°C to +150°C, mount on board	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs
H3TRB	JESD22-A101	85°C, 85% RH, bias	2016 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
RSH	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only	
SD	JSTD002	Ta = 245°C, 5 sec	

Estimated date for qualification completion: 31 January 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
NTMFS005P03P8ZT1G	NTMFS005P03P8ZT1G