



## Final Product/Process Change Notification

Document #:FPCN24053X

Issue Date:04 Oct 2021

<b>Title of Change:</b>	Additional fab site SSMC for FAN53870UC00X	
<b>Proposed First Ship date:</b>	11 Jan 2021 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Thomas.Chen@onsemi.com">Thomas.Chen@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:Rob.Travis@onsemi.com">Rob.Travis@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>	The affected products will be identified with date code	
<b>Change Category:</b>	Wafer Fab Change	
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
None	SSMC, Singapore	
	TSMC Semiconductor, Taiwan	
<b>Description and Purpose:</b>		
onsemi is qualifying additional fab site SSMC for FAN53870UC00X.		
	<b>Before Change Description</b>	<b>After Change Description</b>
Fab Locations	TSMC Fab-08	TSMC FAB-08 SSMC, Singapore
There is no product marking change as a result of this change.		



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### Reliability Data Summary:

QV DEVICE NAME : FAN53870UC00X

RMS: W76091

PACKAGE : 0.35mm pitch 20ball wlscsp/BCD3

Test	Specification	Condition	Interval	Results
HTOL	JA108	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs	0/85
HAST+ PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	96 hours	0/85
TC + PC	JESD22-A104	Temp = -40°C to +125°C; for 850 cycles	850 cyc	0/85
UHAST+ PC	JESD22-A118	Temp = 130C, RH=85%, ~18.8 psig	96 hours	0/85
HBM	JESD22-A114		3 lot	Pass
CDM	JESD22-C101		3 lot	Pass
LU	JEDEC-78		3 lot	Pass

### 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
FAN53870UC00X	FAN53870UC00X