Final Product/Process Change Notification



Document# : P742AAB Issue Date : Jul. 19, 2017

Title of Change:	FAN54005UCX	FAN54005UCX - Maxchip To South Portland Maine Insource				
Proposed first ship date:	Oct. 17, 2017	Oct. 17, 2017				
Contact information:	Contact your local ON Semiconductor Sales Office or < mark.burns@onsemi.com >					
Samples:	Contact your loca	Contact your local ON Semiconductor Sales Office				
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office					
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.ON Semiconductor 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>.</pcn.support@onsemi.com>					
Change Part Identification:	Affected products will be identified with date code.					
Change category:	Wafer Fab	Wafer Fab Change Assembly Change Other				
Change Sub-Category(s):						
Manufacturing Site Change/Additio	n Manufacturii	ng Process Change Mater	rial Change			
Product specific change	Datasheet/Pr	oduct Doc change Shipp	ing/Packaging/Marking			
Other						
Sites Affected:						
All site(s)	Not applicable	ON Semiconductor site(s)	External Foundry/Subcon site(s)			
		Select site:	Select site:			
		MD:8in SOUTH PORTLAND MA	INE			
Description and Purpose:						
The purpose of this change is to qualify the FAN54005UCX - 20ball WLCP product in the Maine fab using the FS35BCDMOS5_40s process. The product is currently run at the Maxchip foundry using the same FS35BCDMOS5_40s fab process. This fab site addition enables dual source supply and flexible capacity to better support our customers. No changes in part design, .gds file or back end assy sites are within the PCN Project scope. Testing was completed to ensure all EC table parameters and part functionality do NOT change.						
Reliability Data Summary:						

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QV DEVICE NAME: FAN54005UCX

RMS/iRel: Q20140289, Q20090294C, Q20160045, Q20120214

PACKAGE: 1.96 x 1.87 mm, 20-ball, 0.4 mm pitch, WLCSP

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1000 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1000 hrs	0/154
TC	JESD22-A104	Ta= -40°C to +125°C	850 cyc	0/485
HAST	JESD22-A110	110°C, 85% RH, biased	264 hrs	0/225
UHAST	JESD22-A118	130°C, 85% RH, unbiased	96 hrs	0/231
PC	JESD22-A113	MSL 1 3 cycles @ 260 °C		0/1326
SD	JESD22-B102	Ta = 245C, 10 sec		0/33

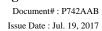
Electrical Characteristic Summary:

Electrical characteristics are not impacted.

Qualification Plan:

Refer to Rel Data Summary.

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List of Affected Part(s):

Part Number	Qualification Vehicle
FAN54005UCX	FAN5400