



| | |
|---|--|
| Title of Change: | FAN54005UCX - Maxchip To South Portland Maine Insource |
| Proposed first ship date: | Oct. 17, 2017 |
| Contact information: | Contact your local ON Semiconductor Sales Office or < mark.burns@onsemi.com > |
| Samples: | 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>. |
| Change Part Identification: | Affected products will be identified with date code. |
| Change category: | <input checked="" type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other |
| Change Sub-Category(s): <input checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Material Change <input type="checkbox"/> Product specific change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other | |
| Sites Affected: <input type="checkbox"/> All site(s) <input type="checkbox"/> Not applicable <input checked="" type="checkbox"/> ON Semiconductor site(s) <input type="checkbox"/> External Foundry/Subcon site(s) <div style="display: flex; justify-content: space-around;"> <div> Select site: MD:8in SOUTH PORTLAND MAINE </div> <div> Select site: </div> </div> | |
| Description and Purpose: <p>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.</p> | |
| Reliability Data Summary: | |

**P742AAB**

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.



List of Affected Part(s):

| Part Number | Qualification Vehicle |
|-------------|-----------------------|
| FAN54005UCX | FAN5400 |