ON Semiconductor

Final Product/Process Change Notification

Document # : FPCN20520B
Issue Date: 19 March 2015

Title of Change:	Qualification of JCET Chuzhou for PDIP (8-16 Lead) package Assembly
Proposed first ship date:	20 June 2015
Contact information:	Contact your local ON Semiconductor Sales Office or <Scott.Brow@onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Tomas.Vajter@onsemi.com>
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 approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <PCN.Support@onsemi.com>.
Change Part Identification:	Devices assembled by JCET Chuzhou will include the character 'JC' as the identifier in the trace code.

Change category(s):

☐ Wafer Fab Change
☒ Assembly Change
☐ Test Change
☐ Manufacturing Site Change/Addition
☐ Manufacturing Process Change
☐ Material Change
☐ Product specific change
☐ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:	Site 1	Site 2
☐ All site(s) ☐ not applicable ☐ ON Semiconductor site(s) : ☒ External Foundry/Subcon site(s):	Jiangsu Changjiang Electronics Technology Co., Ltd	

Description and Purpose:

This is a Final Product Change Notice to alert customers of the additional qualification of JCET Chuzhou, China (ISO9002/ISO14000/SAC Level 1 Certified) to assemble the PDIP products listed in this notification. JCET will provide additional capacity to supplement ON Semiconductor's current assembly facilities.

Upon effectivity of this FPCN, these parts may be sourced from JCET as well as any previously qualified manufacturing location.

Reliability Data Summary:

Reliability Test Results: Qualification Vehicle – LM2574N-5G (PDIP8)

Test	Conditions	Results	
HAST	Ta=130C; RH=85% PSIG = 18.8, with Bias	96 Hrs	0/240
UHAST	TA = 121C; RH = 100% PSIG = 15; No Bias	96 Hrs	0/240
Temp Cycle	-65 to +150C	1000 Cycles	0/240
HTSL	Ta = 175C	1008 Hrs	0/240
HTOL	Ta = 100C	1008 Hrs	0/80
Bond Pull post TC	Condition C	Cpk > 1.33	

Reliability Test Results: Qualification Vehicle – SG3525ANG

Test	Conditions	Results	
HAST	Ta=130C; RH=85% PSIG = 18.8, with Bias	96 Hrs	0/240
UHAST	TA = 121C; RH = 100% PSIG = 15; No Bias	96 Hrs	0/240
Temp Cycle	-65 to +150C	1000 Cycles	0/240
HTSL	Ta = 175C	1008 Hrs	0/240
HTOL	Ta = 100C	1008 Hrs	0/80
Bond Pull post TC	Condition C	Cpk > 1.33	

Electrical Characteristic Summary:

There is no change in the electrical performance. Datasheet specifications remain unchanged.

List of affected Standard Parts:

LM258NG	MC33151PG	NCP5111PG
LM2903NG	MC33152PG	NCP5181PG
LM2904NG	MC33153PG	NCP5304PG
LM2904VNG	MC33262PG	SA5534NG
LM358NG	MC34072APG	TCA0372BDP1G
LM393NG	MC34072PG	TCA0372DP1G
LM833NG	MC34072VPG	UC2842BNG
LP2951ACN-3.0G	MC34151PG	UC2843BNG
LP2951ACN-3.3G	MC34152PG	UC2844BNG
LP2951ACNG	MC34262PG	UC2845BNG
LP2951CN-3.0G	NCP1250BP65G	UC3842BNG
LP2951CN-3.3G	NCP1252APG	UC3843BNG
LP2951CNG	NCP1653APG	UC3843BVNG
MC33072APG	NCP1653PG	UC3844BNG
MC33072PG	NCP5104PG	UC3844BVNG
MC33078PG	NCP5106APG	UC3845BNG
	NCP5106BPG	UC3845BVNG