



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16727BGeneric Copy

Issue Date: 30-Jan-2012**TITLE:** Copper Wire for SOIC and TSSOP packages in Carmona, Philippines**PROPOSED FIRST SHIP DATE:** 30-Apr-2012**AFFECTED CHANGE CATEGORY(S):** Assembly Process**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:** Contact your local ON Semiconductor Sales Office or Scott Brow <Scott.Brow@onsemi.com>**SAMPLES:** Contact your local ON Semiconductor Sales Office or John Flynn <j.flynn@onsemi.com>**ADDITIONAL RELIABILITY DATA:** Available
Contact your local ON Semiconductor Sales Office or or Ken Fergus<Ken.Fergus@onsemi.com>**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 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 <quality@onsemi.com>.**DESCRIPTION AND PURPOSE:**

A General Announcement (GA#16200) was published on 1-29-09 regarding the ongoing Copper Wirebond conversion program at ON Semiconductor. This is a FPCN to notify customers of its plan to qualify Copper Wire (in place of Gold Wire) on SOIC and TSSOP packages assembled at the Carmona, Philippine assembly location. Reliability Qualification and full electrical characterization over temperature has now been completed on the designated package qualification vehicles.

The device listed in this update notification was inadvertently omitted from these prior notifications.


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RELIABILITY DATA SUMMARY:
Reliability Test Results:

#	Test	Name	Test Conditions	End Point Req's	Test Results	(rej/ ss)	(rej/ ss)	(rej/ ss)	(rej/ss)
					Read Point	Lot A	Lot B	Lot C	Control
1	Prep	Sample preparation and initial part testing	Various	---	Initial Electrical	Done	Done	Done	Done
A1	PC	Preconditioning Test (Test@Room/hot) SMD only; Moisture preconditioning for THB/HAST, AC/UHAST, TC; Peak reflow Temp = 260C	MSL 1 260	Test at R and Hot	0/240	0/240	0/240	0/240	0/240
A2	PC -HAST	Preconditioned Highly accelerated stress test	TA= +130°C, RH = 85%, PSIG= 18.8, bias	c = 0, Room, Hot	96 hours	0/80	0/80	0/80	0/80
					144 hours	0/78	0/78	0/78	0/78
					192 hours	0/78	0/78	0/78	0/78
A3	PC-TC	Preconditioned Temperature Cycle	-65/+150 C	c = 0, Room, Hot	500	0/80	0/80	0/80	0/80
					1000cyc	0/78	0/80	0/68	0/78
A4	PC-AC	Preconditioned Autoclave/Unbiased HAST	121C/100%RH,15psi g	c = 0, Room	96 hours	0/80	0/80	0/80	0/80
					192 hours	0/80	0/78	0/78	0/78
					240 hours	0/80	0/78	0/78	0/78
A6	HTSL	High Temperature Storage Life	150C at 1008hrs	c = 0, Room, Hot	504 hours	0/80	0/80	0/80	0/80
					1008 hours	0/80	0/80	0/80	0/80
B1	HTOL	High Temp Op Life	TA = 150°C for 1008hrs	c = 0, Room, Hot	504 hours	0/80	0/80	0/80	0/80
					1008 hours	0/80	0/80	0/80	0/80
C3	SD	Solderability (>95% coverage)		10 units per lot	Pass	0/10	0/10	0/10	0/10
	RSH	Resistance to solder heat	JESD22 – B106 260°C Immersion	Test at R	Pass	0/10	0/10	0/10	0/10

ELECTRICAL CHARACTERISTIC SUMMARY:

There is no electrical characterization difference in products assembled with copper wire. Electrical data is available upon request.

CHANGED PART IDENTIFICATION:

The product affected on this FPCN will have part number date code greater than WW16, 2012.

List of affected General Part(s):

MC33262DR2G