

Die attach material	CRM1084P	CDAF515				
	Before Change	After Change				
There is no impact to the package case outline or significant electrical performance of the affected device based on this change.						
CDAF515 is able to eliminate the high variation on epoxy fillet height by means of pre fixed film thickness to attain consistent "Bond Line Thickness" (BLT).						
attach material for NCP1031MNTXG which is currently assembled in DFN 4 x 4 x 1mm 8 leads package in ON Seremban, Malaysia.						
This Final Change Notification announces the qualification of Conductive Die Attach Film of CDAF515 in replacement of Epoxy CRM1084P as die						
Description and Purpose:						
Sites Affected:         All site(s)       not applicable         ON Semiconductor site(s) :       External Foundry/Subcon site(s)         ON Seremban, Malaysia						
Change Sub-Category(s): <ul> <li>Manufacturing Site Change/Addition</li> <li>Material Change</li> <li>Shipping/Packaging/Marking</li> <li>Other:</li> </ul>						
Change category:	Wafer Fab Change Assembly Change	Test Change Other				
Change Part Identification:	Affected parts will be identified by the date code.					
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>					
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <pre></pre> <pre></pre> <pre></pre> <pre>Office or <pre></pre><pre>Office or <pre></pre><pre>Office or <pre></pre><pre>Office or <pre></pre><pre>Office or <pre></pre><pre>Office or <pre></pre><pre>Office or <pre></pre><pre></pre><pre>Office or <pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre>Office or <pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>					
Samples:	Contact your local ON Semiconductor Sales Office	Contact your local ON Semiconductor Sales Office or < <u>Bruce.Xu@onsemi.com&gt;</u>				
Contact information:	Contact your local ON Semiconductor Sales Office or < <u>Clarence.Wong@onsemi.com</u> >					
Proposed first ship date:	25 January 2017 or earlier upon customer approval.					
Title of Change:	Qualification of CDAF515 as Die Attach Film material for NCP1031MNTXG.					



## Reliability Data Summary:

## Qualification Vehicle Device Name: NCP1031MNTXG

Package: DFN 4x4x1mm 8 leads

Test	Name	Specification	Condition	Read Point	<b>Result</b> (rej. / ss )	
HTOL	High Temp Operating Life	JESD22-A108	TA = 125°C for 1008 hours	1008 Hrs	0/252	
HTSL	High Temp Storage Life	JESD22 A103	TA = 150°C for 1008 hours	1008 Hrs	0/252	
PC	Preconditioning	J STD 020, JESD22-A113	MSL 1 @ 260°C		0/756	
TC-PC	Temperature Cycling + PC	JESD22 A104	Ta= -65°C to 150°C , air to air	500 Cycles	0/252	
AC-PC	Autoclave + PC	JESD22 A102	121°C, 100%RH, 15psig	96 Hrs	0/252	
HAST- PC	Highly Accelerated Stress Test + PC	JESD22 A110	Temp= +130°C, RH=85% p = 18.8 psig, bias	96 Hrs	0/252	
SAT	Scanning Acoustic Analysis	Compare to existing data	Compare for delamination pre- and post- PC	Pre- and Post- PC	Pass	
DPA	Destructive Physical Analysis	AEC Q101	TA = 25°C	Post TC-PC	Pass	
DPA	Destructive Physical Analysis	AEC Q101	TA = 25°C	Post HAST-PC	Pass	
DSS	Die Shear Strength	Mil Std 883 Method 2019	TA = 25°C	Tested pass units	0/90	
ED	Electrical Distribution	Tri-Temperature, per 48A document of the device.	Tri-Temperature per 48A document of the device.	Tested pass units	0/30	
	Characteristic Summary:	s change.				
st of Affe	ected Standard Parts:					
Part Number			Qualification Vehicle			
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