



Final Product/Process Change Notification
 Document #:FPCN23668X
 Issue Date:20 Apr 2022

Title of Change:	JCAP Bumping Site, and Polyimide Change [Batch 1]	
Proposed First Ship date:	27 Jul 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or NoorArdila.Shaharuddin@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Nicky.Siu@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. onsemi 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	
Marking of Parts/ Traceability of Change:	Affected parts with this change will be identified by date code.	
Change Category:	Assembly Change	
Change Sub-Category(s):	Manufacturing Site Transfer, Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	JCAP, China	
Description and Purpose:		
This is the final notification of the new bump site qualification in JCET (formerly known as JCAP) of the CMF dies. The details of the changes are outlined in the tables below.		
Change of polyimide is for product continuance. I-8124ER will no longer be produced by supplier.		
	From	To
Bumping Site	8" wafers are processed at site B1 No.275 Binjiang Road, Jiangyin, Jiangsu, China, 214432	8" wafers are processed at site B2 No.78 Changshan Road, Jiangyin, Jiangsu, China, 214433
Polymer Material	I-8124ER	HD4100
Datasheet specifications and product electrical performance remain unchanged.		
Affected parts with this change will be identified by date code.		



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Reliability Data Summary:

QV DEVICE NAME : EMI8133MUTAG (TH3)
 RMS : S74989
 PACKAGE : XDFN-16, 3.5x1.5mm, 0.5P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, 100% max rated V	2016 hrs	0/231
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cycs	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020, JESD22-A113	MSL 1 @ 260°C	-	-
RSH	JESD22-B106	Ta = 265°C, 10 sec	-	0/30

QV DEVICE NAME : EMI8133MUTAG (PHA)
 RMS : S74554
 PACKAGE : XDFN-16, 3.5x1.5mm, 0.5P

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, 100% max rated V	1008 hrs	0/77
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0/77
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cycs	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020, JESD22-A113	MSL 1 @ 260°C	-	-
RSH	JESD22-B106	Ta = 265°C, 10 sec	-	0/10

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
EMI8143MUTAG	EMI8133MUTAG
EMI8142MUTAG	EMI8133MUTAG
EMI8141MUTAG	EMI8133MUTAG
EMI8133MUTAG	EMI8133MUTAG
EMI8132MUTAG	EMI8133MUTAG
EMI8131MUTAG	EMI8133MUTAG
EMI8043MUTAG	EMI8133MUTAG
EMI8042MUTAG	EMI8133MUTAG
EMI8041MUTAG	EMI8133MUTAG
EMI8041BMUTAG	EMI8133MUTAG