



Title of Change:	Change passivation composition for ON Semiconductor product EFC2J004NUZTDG.		
Proposed first ship date:	09 August 2017		
Contact information:	Contact your local ON Semiconductor Sales Office or <Osamu.Akaki@onsemi.com>		
Samples:	Contact your local ON Semiconductor Sales Office		
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Yasuhiro.Igarashi@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 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:	Date code		
Change category:	☒ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other _____		
Change Sub-Category(s):			
☐ Manufacturing Site Change/Addition ☐ Material Change ☐ Datasheet/Product Doc change ☒ Manufacturing Process Change ☐ Product specific change ☐ Shipping/Packaging/Marking ☐ Other: _____			
Sites Affected:			
☐ All site(s) ☐ not applicable ☐ ON Semiconductor site(s) : ☒ External Foundry/Subcon site(s) UNITED MICROELECTRONICS CORP USA			
Description and Purpose:			
ON Semiconductor qualified new passivation composition for more robust die mounting. This Final PCN is providing the detail pertinent to the change. This change represents robust structure of product.			
Material to be changed	Before Change Description	After Change Description	
Passivation	Silicon nitride	Oxide, Silicon nitride and polyimide	

**Reliability Data Summary:**QV DEVICE NAME EFC8822R-TFRMS: 38779, 39127PACKAGE: WLCSP6

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1,008 hrs	0/231
HTGB	JESD22-A108	Ta=150°C, 100% max rated Vgss	1,008 hrs	0/231
HTSL	JESD22-A103	Ta=150°C	1,008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15,000 cyc	0/231
TC	JESD22-A104	Ta= -40°C to +125°C	1,000 cyc	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
ESD HBM	IEC61000-4	C=100pF, R=1.5KΩ	±2,000V	0/9

Electrical Characteristic Summary:

Electrical characteristics are not impacted.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
EFC2J004NUZTDG	EFC8822R-TF