ON Semiconductor

Final Product/Process Change Notification

Document # : FPCN20626XF
Issue Date: 14 September 2015

Title of Change:	Final PCN for wire change from gold to copper, mold compound change and part number change.
Proposed first ship date:	21 December 2015
Contact information:	Contact your local ON Semiconductor Sales Office or < Yasuhiro Igarashi @onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or < Kazutoshi.Kitazume@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:	Affected products will be identified with new part number (changing suffix to "-W").

PART_ID	New Part_ID
VEC2315-TL-H	VEC2315-TL-W
VEC2415-TL-E	VEC2415-TL-W
VEC2616-TL-H	VEC2616-TL-W
VEC2616-TL-H-Z	VEC2616-TL-W-Z

Change category: ☐ Wafer Fab Change ☒ Assembly Change ☐ Test Change ☐ Other _____

Change Sub-Category(s):
☐ Manufacturing Site Change/Addition
☐ Manufacturing Process Change
☒ Material Change
☐ Product specific change
☐ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

Sites Affected:
☐ All site(s) ☐ not applicable
☒ ON Semiconductor site(s) : ON Shenzhen, China
☐ External Foundry/Subcon site(s)

Description and Purpose:
This is a Final Process Change Notification to announce the content below:

1) Changing wire material from gold to copper
2) Changing part number
3) Changing mold compound from halide to halide free (VEC2415-TL-E only).

Reliability Data Summary:

Test	Conditions	Read point	Results
High Temperature High Humidity Reverse Bias	Ta=85degC, RH=85%, 80% V bias	1008 hrs.	0/77
High Temperature Reverse Bias	Ta=150degC, 80% V bias	1008 hrs.	0/77
High Temperature Gate Bias	Ta=150degC, 100% V bias	1008 hrs.	0/77
Temperature Cycle	Ta=-55degC to 150degC	500 cycles	0/77
Autoclave	Ta=121degC,RH=100%	96 hrs.	0/77
Intermittent Operating Life	Ta-25degC, delta Tj=100degC max	15000cycles	0/77
High Temperature Storage	Ta=150degC	1008 hrs.	0/77
Resistance to Soldering heat (Reflow)	Solder Temp.:260deg, 10s		0/30

Electrical Characteristic Summary:

Electrical characteristics are not impacted.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
VEC2315-TL-H	VEC2616-TL-W
VEC2415-TL-E	VEC2616-TL-W
VEC2616-TL-H	VEC2616-TL-W
VEC2616-TL-H-Z	VEC2616-TL-W