ON Semiconductor

Final Product/Process Change Notification

Document # : FPCN21079ZB
Issue Date: 23 December 2015

Title of Change:	Adding Nitride Passivation layer on P-Zener devices.
Proposed first ship date:	23 December 2016
Contact information:	Contact your local ON Semiconductor Sales Office or <Syahrul.SamsuddinA.Rahim@onsemi.com>
Samples:	Contact your local ON Semiconductor Sales Office
Additional Reliability Data:	Contact your local ON Semiconductor 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 12 months 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 <PCN.Support@onsemi.com>.
Change Part Identification:	Affected products will be identified with date code
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 ISMF, Malaysia ☐ External Foundry/Subcon site(s)

Description and Purpose:

As a part of ON Semiconductor's continuous improvement, this FPCN is issued to announce that Passivation change will occur with adding a Nitride Passivation Layer on P-Zener devices

Reliability Data Summary:

QV DEVICE NAME : SZMMBZ33VALT1G
PACKAGE: SOT-23

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C. Performed prior to TC and HAST test.	Post PC	0/462
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231

To access file attachments on pdf copy of PCN, please be guided by the steps below:

1. *Download pdf copy of the PCN to your computer*
2. *Open the downloaded pdf copy of the PCN*
3. *Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field*
4. *Then click on the attached file/s*

Electrical Characteristic Summary:

Electrical characteristics are not impacted

List of Affected Standard Parts:

Part Number	Qualification Vehicle
SZESD9X12ST5G	SZMMBZ33VALT1G
SZNUP3112UPMUTAG	
SZSMF12CT1G	