

Issue Date: 28 June 2017

Title of Change:	Transfer of Automotive Assembly and Test operations of SMB packaged products to On Semiconducto Vietnam (OSV).	
Proposed Changed Material First Ship Date:	1 July 2018	
Current Material Last Order Date:	1 April 2018 Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.	
Current Material Last Delivery Date:	30 June 2018 The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory.	
Product Category:	Active components – Discrete components	
Contact information	Contact your local ON Semiconductor Sales Office or <phuong.hoang@onsemi.com></phuong.hoang@onsemi.com>	
Samples	Contact your local ON Semiconductor Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification.	
Sample Availability Date:	1 July 2017	
PPAP Availability Date:	31 July 2017	
Additional Reliability Data	Contact your local ON Semiconductor Sales Office or <cheanching.sim@onsemi.com>.</cheanching.sim@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 or earlier upon customer approval. ON Semiconductor will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact < <u>PCN.Support@onsemi.com</u> >.	
Change Category	Type of Change	
Process – Assembly	Move of all or part of assembly to a different location/site/subcontractor.	
Test Flow	Move of all or part of electrical wafer test and/or final test to a different location/site/subcontractor.	
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.	

Description and Purpose:

This Final Notification announces the transfer of Assembly and Test of SMB products from ON Semiconductor Malaysia (SBN) to ON Semiconductor Vietnam (OSV).

Upon completion of this transfer, these SMB products will be sourced solely from OSV Vietnam locations using the same Bill of Material.

ON Semiconductor Vietnam (OSV) is qualified site for SMB Standard discrete packaged products and is ISO TS16949 certified.

Products sourced from OSV have been qualified to Automotive requirements and continue remain as Pb-free, Halide free and RoHS compliant.



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Reason / Mot Change:	tivation for	 Change benefits for customer(s): Unconstrained Automotive Sourcing; Mfg floor space for future expansion Sustained TS16949 Certification with the Same BOM / Equipment / Processes Allow for increased support for Seremban packages that are currently constrained OSV has been audited to VDA6.3 Risks for delayed conversion: No Seremban supply after July 1st, 2018 Limited ability to support bridge build availability. 			
•					
Sites Affect	ed:				
] All site(s)	🗌 not appli	licable			(s)
	arking of Parts/ Products fr		rom OSV will carry site code "VN" at the bottom of the package.		
		Products	from OSV will carry site code "VN" at the bottom of the	e package.	
raceability o Reliability Da QV DEVICE PACKAGE:	of Change: ta Summary: E NAME: P6SMB20 SMB	00AT3G (Zer	ner)		Result
raceability o teliability Da QV DEVICE PACKAGE: Test	of Change: ta Summary: E NAME: P6SMB20 SMB Specificat	00AT3G (Zer ion	ner) Condition	Interval	
raceability o Reliability Da QV DEVICE PACKAGE:	of Change: ta Summary: E NAME: P6SMB20 SMB	00AT3G (Zer ion 108	ner)		Result 0/252 0/252
Reliability Da QV DEVICE PACKAGE: Test HTRB	of Change: ta Summary: E NAME: P6SMB2C SMB Specificat JESD22-A:	00AT3G (Zer ion 108 103 750 7)	ner) Condition Ta = 150 °C, bias = 80% of rated V	Interval 1008 hrs	0/252
raceability o Reliability Da QV DEVICE PACKAGE: Test HTRB HTSL	ta Summary: E NAME: P6SMB2C SMB Specificat JESD22-A: MIL-STD-7 (M1037	DOAT3G (Zer ion 108 103 750 7) D1	her) Condition Ta = 150 °C, bias = 80% of rated V Ta = 150 °C Ta = +25°C, deltaTj=100°C max,	Interval 1008 hrs 1008 hrs	0/252 0/252
raceability o eliability Da QV DEVICE PACKAGE: Test HTRB HTSL IOL	ta Summary: E NAME: P6SMB20 SMB Specificat JESD22-A: JESD22-A: MIL-STD (M1037 AEC-Q10	00AT3G (Zer ion 108 103 750 7) 01 104	Condition Ta = 150 °C, bias = 80% of rated V Ta = 150 °C Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min	Interval 1008 hrs 1008 hrs 1008 hrs 15000 cyc	0/252 0/252 0/252
raceability o Reliability Da QV DEVICE PACKAGE: Test HTRB HTSL IOL TC	of Change: ta Summary: E NAME: P6SMB2C SMB Specificat JESD22-A: MIL-STD-: (M1037 AEC-Q10 JESD22-A:	00AT3G (Zer ion 108 103 750 7) 01 104 102	Condition Ta = 150 °C, bias = 80% of rated V Ta = 150 °C Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min Temp = -65°C to +150°C	Interval 1008 hrs 1008 hrs 1008 hrs 15000 cyc 1000 cyc	0/252 0/252 0/252 0/252
Traceability o Reliability Da QV DEVICE PACKAGE: Test HTRB HTSL IOL TC AC	ta Summary: ta Summary: E NAME: P6SMB20 SMB Specificat JESD22-A: MIL-STD (M1037 AEC-Q10 JESD22-A: JESD22-A: JESD22-A:	00AT3G (Zer ion 108 103 750 7) 01 104 102 101	Condition Ta = 150 °C, bias = 80% of rated V Ta = 150 °C Ta = 150 °C Ta = +25°C, deltaTj=100°C max, Ton = Toff = 2min Temp = -65°C to +150°C 121°C, 100% RH, 15psig, unbiased	Interval 1008 hrs 1008 hrs 1008 hrs 15000 cyc 1000 cyc 96 hrs	0/252 0/252 0/252 0/252 0/252
Traceability o Reliability Da QV DEVICE PACKAGE: Test HTRB HTSL IOL IOL TC AC H3TRB	of Change: ta Summary: E NAME: P6SMB2C SMB Specificat JESD22-A: MIL-STD-: (M1037 AEC-Q10 JESD22-A: JESD22-A: JESD22-A:	DOAT3G (Zer ion 108 103 750 7) 01 104 102 101 5D-A113	Condition Ta = 150 °C, bias = 80% of rated V Ta = 150 °C Ta=+25°C, deltaTj=100°C max, Ton = Toff = 2min Temp = -65°C to +150°C 121°C, 100% RH, 15psig, unbiased Temp = 85°C, RH=85%, bias = 100V max	Interval 1008 hrs 1008 hrs 1008 hrs 15000 cyc 1000 cyc 96 hrs	0/252 0/252 0/252 0/252 0/252 0/252

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Electrical Characteristic Summary:

Electrical characteristics are not impacted.



Transferring Malaysia (SBN) Part Number	Qualification Vehicle
S1Z1SMB5919BT3G	
SZ1SMB5913BT3G	
SZ1SMB5916BT3G	
SZ1SMB5918BT3G	
SZ1SMB5919BT3G	
SZ1SMB5921BT3G	
SZ1SMB5922BT3G	
SZ1SMB5923BT3G	
SZ1SMB5925BT3G	
SZ1SMB5926BT3G	
SZ1SMB5928BT3G	
SZ1SMB5929BT3G	
SZ1SMB5930BT3G	
SZ1SMB5932BT3G	
SZ1SMB5940BT3G	DESMID200AT2C
SZ1SMB5941BT3G	P6SMB200AT3G
SZ1SMB5942BT3G	
SZ1SMB5943BT3G	
SZ1SMB5944BT3G	
SZ1SMB5945BT3G	
SZ1SMB5946BT3G	
SZ1SMB5947BT3G	
SZ1SMB5948BT3G	
SZ1SMB5949BT3G	
SZ1SMB5951BT3G	
SZ1SMB5952BT3G	
SZ1SMB5953BT3G	
SZ1SMB5956BT3G	
SZ2446T3G	
SZ2720T3G	