



Title of Change:	Transfer of Assembly and Test operations of SMC packaged products to Shanghai Seefull Electronic.																								
Proposed first ship date:	28 March 2017 <i>or earlier upon customer approval</i>																								
Contact information:	Contact your local ON Semiconductor Sales Office or <SitiNurhaza.MohdRamli@onsemi.com>																								
Samples:	Contact your local ON Semiconductor Sales Office																								
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office																								
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:	There are no changes in the part numbers or marking.																								
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) : _____ ☒ External Foundry/Subcon site(s) Shanghai Seefull Electronic Co.Ltd																								
Description and Purpose:																									
This FPCN announces the transfer of ON Semiconductor's assembly and test operations of SMC discrete packaged products:																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #92d050;"> <th style="text-align: center;">Change From (ON Semiconductor Part Number)</th><th style="text-align: center;">Change to (Equivalent Part Number at Shanghai Seefull Electronic)</th></tr> </thead> <tbody> <tr><td style="text-align: center;">MBRS3100T3G</td><td style="text-align: center;">MBRS3100PT3G</td></tr> <tr><td style="text-align: center;">MBRS3201T3G</td><td style="text-align: center;">MBRS3201PT3G</td></tr> <tr><td style="text-align: center;">MBRS320T3G</td><td style="text-align: center;">MBRS320PT3G</td></tr> <tr><td style="text-align: center;">MBRS330T3G</td><td style="text-align: center;">MBRS330PT3G</td></tr> <tr><td style="text-align: center;">MBRS340T3G</td><td style="text-align: center;">MBRS340PT3G</td></tr> <tr><td style="text-align: center;">MBRS360T3G</td><td style="text-align: center;">MBRS360PT3G</td></tr> <tr><td style="text-align: center;">MBRS4201T3G</td><td style="text-align: center;">MBRS4201PT3G</td></tr> <tr><td style="text-align: center;">MBRS540T3G</td><td style="text-align: center;">MBRS540PT3G</td></tr> <tr><td style="text-align: center;">MBRS3100T3H</td><td style="text-align: center;">NA</td></tr> <tr><td style="text-align: center;">MBRS340T3H</td><td style="text-align: center;">NA</td></tr> <tr><td style="text-align: center;">MBRS360T3H</td><td style="text-align: center;">NA</td></tr> </tbody> </table>		Change From (ON Semiconductor Part Number)	Change to (Equivalent Part Number at Shanghai Seefull Electronic)	MBRS3100T3G	MBRS3100PT3G	MBRS3201T3G	MBRS3201PT3G	MBRS320T3G	MBRS320PT3G	MBRS330T3G	MBRS330PT3G	MBRS340T3G	MBRS340PT3G	MBRS360T3G	MBRS360PT3G	MBRS4201T3G	MBRS4201PT3G	MBRS540T3G	MBRS540PT3G	MBRS3100T3H	NA	MBRS340T3H	NA	MBRS360T3H	NA
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MBRS360T3H	NA																								
Shanghai Seefull Electronic Co. Ltd is a qualified assembly and test site for ON Semiconductor, SMA SMB and others SMC Rectifier packages.																									
Upon the expiration of this FPCN, SMC products will be processed at Shanghai Seefull Electronic under the same part names as ON Semiconductor Seremban using Shanghai Seefull Electronic Bill of Material. The case outline for these devices will migrate from 403-03 to 403AC. Case outline 403AC includes a change from the legacy polarity notch to an industry standard polarity band and incorporates minor dimensional changes to accommodate the additional assembly site.																									

**Reliability Data Summary:****QV DEVICE NAME: MBR54201T3G****PACKAGE: SMC**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/231
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/231
H3TRB	JESD22-A101	85°C, 85% RH, V=80% rated V or 100V max.	1008 hrs	0/231
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/924
SD	J-STD-002 , B102	50X		0/30
RSH	JESD22 B106	260°C Immersion		0/30

QV DEVICE NAME: MBR53100T3G**PACKAGE: SMC**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15000 cyc	0/77
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/77
H3TRB	JESD22-A101	85°C, 85% RH, V=80% rated V or 100V max.	1008 hrs	0/77
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/308
SD	J-STD-002 , B102	50X		0/10
RSH	JESD22 B106	260°C Immersion		0/10

Electrical Characteristic Summary:

There are no changes in electrical characteristics; product performance meets data sheet specifications. Customer will continuously be receiving parts sourced from ON Semiconductor Seremban and Shanghai Seefull Electronic assembly site.

**List of Affected Standard Parts:**

Part Number	Qualification Vehicle
MBRS3100T3G	MBRS3100PT3G
MBRS3100T3H	MBRS3100PT3G
MBRS3201T3G	MBRS4201PT3G
MBRS320T3G	MBRS3100PT3G
MBRS330T3G	MBRS3100PT3G
MBRS340T3G	MBRS3100PT3G
MBRS340T3H	MBRS3100PT3G
MBRS360T3G	MBRS3100PT3G
MBRS360T3H	MBRS3100PT3G
MBRS4201T3G	MBRS4201PT3G
MBRS540T3G	MBRS4201PT3G