



Final Product/Process Change Notification

Document #:FPCN24905X

Issue Date:29 Sep 2022

Title of Change:	To qualify new structure for SMA, SMB, SMC package series	
Proposed First Ship date:	05 Jan 2023 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Tai.Truong@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Khoa.Tran2@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. onsemi 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	
Marking of Parts/ Traceability of Change:	Clean date code advise upon request	
Change Category:	Assembly Change	
Change Sub-Category(s):	Manufacturing Process Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	Panjit International Inc., Taiwan	
Description and Purpose:		
This is the Final Notification to announce the plan to qualify new structure for SMA, SMB, SMC packages in table below.		
	From	To
LeadFrame/clip	Copper L/F & Copper L/F	Copper L/F & Copper Clip
Mold compound	CCSB, EMEE110G; Hysol KL-G100S	Hysol, GR530
There is no product marking change as a result of this change.		



Final Product/Process Change Notification

Document #:FPCN24905X

Issue Date:29 Sep 2022

Reliability Data Summary:

QV DEVICE NAME: RS1M (Fast Rectifiers)

PACKAGE: SMA

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, deltaTj = 100°C max, Ton = Toff = 2min	15000 cyc	0/77
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/77
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/77
H3TRB	JESD22-A101	Ta = 85°C, RH = 85%, bias = 100V max	1008 hrs	0/77
HTRB	JESD22-A108	Ta = 140°C, bias = 100% of rated V	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/308
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15

QV DEVICE NAME: SSA210 (Schottky Rectifiers)

PACKAGE: SMA

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta = 175 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, deltaTj = 100°C max, Ton = Toff = 2min	15000 cyc	0/77
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/77
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/77
H3TRB	JESD22-A101	Ta = 85°C, RH = 85%, bias = 80% of rated V	1008 hrs	0/77
HTRB	JESD22-A108	Ta = 100°C, bias = 100% of rated V	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/308
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15

QV DEVICE NAME: S2M (General – Purpose Rectifiers)

PACKAGE: SMB

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, deltaTj = 100°C max, Ton = Toff = 2min	15000 cyc	0/77
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/77
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/77
H3TRB	JESD22-A101	Ta = 85°C, RH = 85%, bias = 100V max	1008 hrs	0/77
HTRB	JESD22-A108	Ta = 140°C, bias = 100% of rated V	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/308
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15



Final Product/Process Change Notification

Document #:FPCN24905X

Issue Date:29 Sep 2022

QV DEVICE NAME: S320 (Schottky Rectifiers)

PACKAGE: SMB

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, deltaTj = 100°C max, Ton = Toff = 2min	15000 cyc	0/77
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/77
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/77
H3TRB	JESD22-A101	Ta = 85°C, RH = 85%, bias = 100V max	1008 hrs	0/77
HTRB	JESD22-A108	Ta = 100°C, bias = 100% of rated V	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/308
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15

QV DEVICE NAME: S310 (Schottky Rectifiers)

PACKAGE: SMC

Test	Specification	Condition	Interval	Result
HTSL	JESD22-A103	Ta = 150 °C	1008 hrs	0/77
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, deltaTj = 100°C max, Ton = Toff = 2min	15000 cyc	0/77
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/77
AC	JESD22-A102	121°C, 100% RH, 15psig, unbiased	96 hrs	0/77
H3TRB	JESD22-A101	Ta = 85°C, RH = 85%, bias = 80% of rated V	1008 hrs	0/77
HTRB	JESD22-A108	Ta = 100°C, bias = 100% of rated V	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/308
RSH	JESD22- B106	Ta = 265°C, 10 sec		0/30
SD	JSTD002	Ta = 245°C, 10 sec		0/15

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
RGF1A	RS1M
RGF1B	RS1M
RGF1D	RS1M
RGF1G	RS1M
RGF1J	RS1M
RGF1K	RS1M
RGF1M	RS1M
RS1A	RS1M
RS1B	RS1M



Final Product/Process Change Notification

Document #:FPCN24905X

Issue Date:29 Sep 2022

RS1D	RS1M
RS1G	RS1M
RS1J	RS1M
RS1K	RS1M
RS1M	RS1M
GF1A	RS1M
GF1B	RS1M
GF1D	RS1M
GF1G	RS1M
GF1J	RS1M
GF1K	RS1M
GF1M	RS1M
S1A	RS1M
S1B	RS1M
S1D	RS1M
S1G	RS1M
S1J	RS1M
S1K	RS1M
S1M	RS1M
S100	SSA210
SS12	SSA210
SS13	SSA210
SS14	SSA210
SS15	SSA210
SS18	SSA210
SS19	SSA210
SSA210	SSA210
SSA24	SSA210
SSA36	SSA210
ES1A	RS1M
ES1B	RS1M
ES1C	RS1M
ES1D	RS1M
ES1F	RS1M



Final Product/Process Change Notification

Document #:FPCN24905X

Issue Date:29 Sep 2022

ES1G	RS1M
ES1H	RS1M
ES1J	RS1M
EGF1A	RS1M
EGF1B	RS1M
EGF1C	RS1M
EGF1D	RS1M
S2A	S2M
S2B	S2M
S2D	S2M
S2G	S2M
S2J	S2M
S2K	S2M
S2M	S2M
S210	S320
S320	S320
SS23	S320
SS25	S320
SS28	S320
SS29	S320
ES2A	S2M
ES2B	S2M
ES2C	S2M
ES2D	S2M
S310	S310
SS32	S310
SS33	S310
SS34	S310
SS35	S310
SS36	S310
SS38	S310
SS39	S310