



# Final Product/Process Change Notification

Document #:FPCN23914X

Issue Date:15 Dec 2021

<b>Title of Change:</b>	Transfer of Assembly and Test operation of former Fairchild SOT223 Eutectic Transistor to onsemi Seremban, Malaysia and change the wafer fab from Phenitec, Japan to onsemi ISMF, Malaysia.
<b>Proposed First Ship date:</b>	22 Mar 2022 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:norhayati.othman@onsemi.com">norhayati.othman@onsemi.com</a>
<b>PCN Samples Contact:</b>	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.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:ChangKit.Mok@onsemi.com">ChangKit.Mok@onsemi.com</a>
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	Customers may receive the parts from Cebu once FPCN expired or earlier depending on customer approval. Parts from new assembly and test site can be identified through product marking which follow ON Semiconductor marking format.
<b>Change Category:</b>	Wafer Fab Change, Assembly Change, Test Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer

**Sites Affected:**

onsemi Sites	External Foundry/Subcon Sites
onsemi Seremban, Malaysia	None
onsemi, ISMF Malaysia	

**Description and Purpose:**

This final notification announces the transfer of Assembly and Test operation of former Fairchild SOT223 Eutectic Transistor to onsemi Seremban, Malaysia and change the wafer fab from Phenitec, Japan to onsemi ISMF, Malaysia.

This change was resulted in Phenitec 5in fab closure. The onsemi ISMF and onsemi Seremban has been an existing qualified manufacturing site for onsemi which certified with ISO/TS 16949:2009.

Products listed in this notification will continue to be Pb-free, Halide free and RoHS compliant. Qualification tests are designed to show that the reliability of the transferred devices will continue to meet or exceed onsemi standard.

Site Change:

	Before Change Description	After Change Description
Wafer Fab	Phenitec, Japan	onsemi ISMF, Malaysia
Assembly & Test Site	onsemi Cebu, Philippines	onsemi, Malaysia



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SOT223 Piece Part Change:

	Before Change Description	After Change Description
LeadFrame	Bare Cu with Ag Plating (Cebu LF design)	Bare Cu with Ag Plating (SBN LF design)
Die Attach	Eutectic	Eutectic
Bond Wire	1.0 mil Au wire	1.0 mil Au wire
Mold Compound	MC PA PLASKON AMC-2RC	MC EME G700HC

**Reliability Data Summary:**

**QV DEVICE NAME: PZTA06**

**RMS: S63340, S70992, S77127**

**PACKAGE: SOT223**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hours	0/231
IOL + PC	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15,000 cycles	0/231
TC + PC	JESD22-A104	Ta= -55°C to +150°C	1000 cycles	0/231
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/231
H3TRB + PC	JESD22-A101	85°C, 85% RH, 80% max rated V	1008 hours	0/231
PC	J-STD-020 JESD22-A113	MSL 1 @260 °C	-	0/924

**QV DEVICE NAME: PZTA56**

**RMS: S63341, S73399, S67318**

**PACKAGE: SOT223**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 100% max rated V	1008 hours	0/231
HTSL	JESD22-A103	Ta= 100°C	1008 hours	0/231
IOL + PC	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15,000 cycles	0/231
TC + PC	JESD22-A104	Ta= -55°C to +150°C	1000 cycles	0/231
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, 80% max rated V	96 hours	0/231
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/231
PC	J-STD-020 JESD22-A113	MSL 1 @260 °C	-	0/924
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/45
SD	JSTD002	Ta = 245C, 5 sec	-	0/45

**QV DEVICE NAME: PZTA64**

**RMS: S63343, S68056**

**PACKAGE: SOT223**

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/154
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cycles	0/154
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, 80% max rated V	96 hours	0/154
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/154
PC	J-STD-020 JESD22-A113	MSL 1 @260 °C	-	0/308
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/20
SD	JSTD002	Ta = 245C, 5 sec	-	0/30



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### 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
PZTA64	PZTA64
PZTA56	PZTA56
PZTA14	PZTA06
PZTA06	PZTA06