nexperia.com

nexperia

Product Change Notification **CN-202606006F**

Issue date: 03 Jul 2026

Effective date: 15 Oct 2026

Here's your personalized quality information concerning products our customers and partners purchased from Nexperia.

For more details please contact your respective Nexperia CSR/AM.

Release of SOT363 Package on STS (Strip-to-Strip) Backend Assembly Platform - Wave 1

Change Category

[ ] Wafer Fab Process	[X] Assembly Process	[ ] Product Marking	[ ] Test Location	[ ] Design
[ ] Wafer Fab Materials	[X] Assembly Materials	[ ] Mechanical Specification	[ ] Test Process	[ ] Errata
		[ ] Packing/Shipping/Labeling	[ ] Test Equipment	[ ] Electrical spec./Test coverage

[ ] Wafer Fab Location	[ ] Assembly Location

Details of this change

The SOT363 package is released on STS (strip-to-strip) backend assembly platform in combination with the following changes:
-Manufacturing based on strip-to-strip concept utilizing same basic technologies
-Release of mold compound EME-G700KC and leadframe base material C19400 (Cu)
-Lead width with relaxed dimension of lower specification limit (but with no change to solder footprint)
-Package version designated as SOT363-3 to reflect updated lead width specification in package outline

CN-202606006F_PCN-FORM.xlsx:
https://qcm.nexperia.com/Document/DOC-613515/CN-202606006F_PCN-FORM.xlsx

CN-202606006F_Self-Qualification-Report.pdf:
https://qcm.nexperia.com/Document/DOC-613514/CN-202606006F_Self-Qualification-Report.pdf

CN-202606006F_PCN-Delta-Qualification-Matrix-ZVEI.xlsx:
https://qcm.nexperia.com/Document/DOC-613476/CN-202606006F_PCN-Delta-Qualification-Matrix-ZVEI.xlsx

CN-202606006F_Change-Matrix.xlsx:
https://qcm.nexperia.com/Document/DOC-613477/CN-202606006F_Change-Matrix.xlsx

Why do we implement this change?

To enhance manufacturing flexibility, increase throughput, and support future production growth as part of Nexperia's long-term capacity strategy to enable future supply scaling.

Identification of affected products

Product Identification does not change

Changed products can be identified by date code after implementation.

Management summary

SEM-AN-01 - Any change with impact on agreed upon technical contractual agreements (adaptation of datasheet)
SEM-PA-11 - Mold Compound
SEM-PA-02 - Leadframe base material
SEM-PA-03 - Leadframe dimensions
SEM-EQ-02 - Production equipment

Product availability

Production

Planned first shipment: 15 Oct 2026

Existing inventory will be shipped until depleted

Sample information

Samples are available upon request

Impact

No impact to the product's functionality anticipated

Data sheet revision

A new datasheet will be issued

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 02 Aug 2026. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

View Change Notification Online

Contact and support

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support Team.

For specific questions on this notice or the products affected please contact our specialist directly:

In case of distribution, please contact you distribution partner.

About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

You have received this email because you are a designated contact or subscribed to Nexperia Quality Notifications. Nexperia shall not be held liable if this Notification is not correctly distributed within your organization.

This message has been automatically distributed. Please do not reply.

If you would like to adjust your mailing preferences, please click here.

SalesItem_name	SalesItem_orderablePartNumber	SalesOrder_customerPartNumber	ProductType_name	BasicType_description	PackageOutlineVersion_description	PackageType_description	SalesItem_state	SalesItem_discontinuationType	SalesItem_availability	SalesItem_source	SalesItem_lastTimeBuyDate	SalesItem_lastTimeShipDate	SalesItem_customerSpecificIndicator	Replacement_SalesItem_orderablePartNumber	Replacement_SalesItem_name	Replacement_ProductType_name	Replacement_BasicType_description	BusinessLine_description
934665748115	BAS116DY-QX		BAS116DY-Q	Switching Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665748115	BAS116DY-QX		BAS116DY-Q	Switching Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665747115	BAS116DYX		BAS116DY	Switching Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665747115	BAS116DYX		BAS116DY	Switching Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665750115	BAS116VY-QX		BAS116VY-Q	Switching Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665750115	BAS116VY-QX		BAS116VY-Q	Switching Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665749115	BAS116VYX		BAS116VY	Switching Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665749115	BAS116VYX		BAS116VY	Switching Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665817115	BAS16DY-QX		BAS16DY-Q	Switching Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665817115	BAS16DY-QX		BAS16DY-Q	Switching Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665816115	BAS16DYX		BAS16DY	Switching Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665816115	BAS16DYX		BAS16DY	Switching Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934057343115	BAS16VY,115	BAS16VY,115	BAS16VY	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934057343115	BAS16VY,115	BAS16VY,115	BAS16VY	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934057343125	BAS16VY,125	BAS16VY,125	BAS16VY	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934057343125	BAS16VY,125	BAS16VY,125	BAS16VY	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934057343135	BAS16VY,135	BAS16VY,135	BAS16VY	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934057343135	BAS16VY,135	BAS16VY,135	BAS16VY	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934057343165	BAS16VY,165	BAS16VY,165	BAS16VY	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934057343165	BAS16VY,165	BAS16VY,165	BAS16VY	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663649135	BAS16VY-QF	BAS16VY-QF	BAS16VY-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663649135	BAS16VY-QF	BAS16VY-QF	BAS16VY-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663649125	BAS16VY-QH	BAS16VY-QH	BAS16VY-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663649125	BAS16VY-QH	BAS16VY-QH	BAS16VY-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663649115	BAS16VY-QX	BAS16VY-QX	BAS16VY-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663649115	BAS16VY-QX	BAS16VY-QX	BAS16VY-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663649165	BAS16VY-QZ	BAS16VY-QZ	BAS16VY-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663649165	BAS16VY-QZ	BAS16VY-QZ	BAS16VY-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665753115	BAS40DY-QX		BAS40DY-Q	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665753115	BAS40DY-QX		BAS40DY-Q	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665751115	BAS40DYX		BAS40DY	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665751115	BAS40DYX		BAS40DY	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665757115	BAS40VY-QX	BAS40VY-QX	BAS40VY-Q	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665757115	BAS40VY-QX	BAS40VY-QX	BAS40VY-Q	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665754115	BAS40VYX		BAS40VY	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665754115	BAS40VYX		BAS40VY	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934059955115	BAS40XY,115	BAS40XY,115	BAS40XY	General-purpose Schottky	SOT363	SC-88	RFS						No					Bipolar Discretes
934059955115	BAS40XY,115	BAS40XY,115	BAS40XY	General-purpose Schottky	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934669577115	BAS40XY-QX		BAS40XY-Q	GP Schottky Diodes	SOT363	SC-88	RFS						No					Bipolar Discretes
934669577115	BAS40XY-QX		BAS40XY-Q	GP Schottky Diodes	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934045840115	BAS70-07S,115	BAS70-07S,115	BAS70-07S	General-purpose Schottky	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934045840115	BAS70-07S,115	BAS70-07S,115	BAS70-07S	General-purpose Schottky	SOT363	SC-88	RFS						No					Bipolar Discretes
934664522115	BAS70-07S-QX		BAS70-07S-Q	General-purpose Schottky	SOT363	SC-88	RFS						No					Bipolar Discretes
934664522115	BAS70-07S-QX		BAS70-07S-Q	General-purpose Schottky	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665758115	BAS70VY-QX	BAS70VY-QX	BAS70VY-Q	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665758115	BAS70VY-QX	BAS70VY-QX	BAS70VY-Q	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665755115	BAS70VYX		BAS70VY	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665755115	BAS70VYX		BAS70VY	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934059956115	BAS70XY,115	BAS70XY,115	BAS70XY	General-purpose Schottky	SOT363	SC-88	RFS						No					Bipolar Discretes
934059956115	BAS70XY,115	BAS70XY,115	BAS70XY	General-purpose Schottky	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934664526115	BAS70XY-QX	BAS70XY-QX	BAS70XY-Q	General-purpose Schottky	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934664526115	BAS70XY-QX	BAS70XY-QX	BAS70XY-Q	General-purpose Schottky	SOT363	SC-88	RFS						No					Bipolar Discretes
934061755115	BAT54CY,115		BAT54CY	SCHOTTKY DIODE	SOT363	SC-88	RFS						No					Bipolar Discretes
934061755115	BAT54CY,115		BAT54CY	SCHOTTKY DIODE	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665752115	BAT54CY-QX		BAT54CY-Q	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665752115	BAT54CY-QX		BAT54CY-Q	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934061754115	BAT54VY,115		BAT54VY	SCHOTTKY DIODE	SOT363	SC-88	RFS						No					Bipolar Discretes
934061754115	BAT54VY,115		BAT54VY	SCHOTTKY DIODE	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665756115	BAT54VY-QX		BAT54VY-Q	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934665756115	BAT54VY-QX		BAT54VY-Q	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934059127115	BAT54XY,115	BAT54XY,115	BAT54XY	Schottky barrier quadruple	SOT363	SC-88	RFS						No					Bipolar Discretes
934059127115	BAT54XY,115	BAT54XY,115	BAT54XY	Schottky barrier quadruple	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934669575115	BAT54XY-QX		BAT54XY-Q	GP Schottky Diodes	SOT363	SC-88	RFS						No					Bipolar Discretes
934669575115	BAT54XY-QX		BAT54XY-Q	GP Schottky Diodes	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934059127125	BAT54XYH	BAT54XYH	BAT54XY	Schottky barrier quadruple	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934059127125	BAT54XYH	BAT54XYH	BAT54XY	Schottky barrier quadruple	SOT363	SC-88	RFS						No					Bipolar Discretes
934669825115	BAT74S-QX		BAT74S-Q	GP Schottky Diodes	SOT363	SC-88	RFS						No					Bipolar Discretes
934669825115	BAT74S-QX		BAT74S-Q	GP Schottky Diodes	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934056331115	BAT754L,115	BAT754L,115	BAT754L	Schottky barrier triple diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934056331115	BAT754L,115	BAT754L,115	BAT754L	Schottky barrier triple diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934669612115	BAT754L-QX		BAT754L-Q	GP Schottky Diodes	SOT363	SC-88	RFS						No					Bipolar Discretes
934669612115	BAT754L-QX		BAT754L-Q	GP Schottky Diodes	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934664975165	BAV199S-QZ	BAV199S-QZ	BAV199S-Q	Schottky Diode	SOT363	SC-88	RFS						No					Bipolar Discretes
934664975165	BAV199S-QZ	BAV199S-QZ	BAV199S-Q	Schottky Diode	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934045740115	BAV70S,115	BAV70S,115	BAV70S	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934045740115	BAV70S,115	BAV70S,115	BAV70S	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934045740135	BAV70S,135	BAV70S,135	BAV70S	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934045740135	BAV70S,135	BAV70S,135	BAV70S	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663653135	BAV70S-QF		BAV70S-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663653135	BAV70S-QF		BAV70S-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663653115	BAV70S-QX	BAV70S-QX	BAV70S-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663653115	BAV70S-QX	BAV70S-QX	BAV70S-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934052910115	BAV756S,115	BAV756S,115	BAV756S	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934052910115	BAV756S,115	BAV756S,115	BAV756S	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934669826115	BAV756S-QX		BAV756S-Q	GP Switching Diodes	SOT363	SC-88	RFS						No					Bipolar Discretes
934669826115	BAV756S-QX		BAV756S-Q	GP Switching Diodes	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934056610115	BAV99S,115	BAV99S,115	BAV99S	QUADRUPLE SWITCHING I	SOT363	SC-88	RFS						No					Bipolar Discretes
934056610115	BAV99S,115	BAV99S,115	BAV99S	QUADRUPLE SWITCHING I	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934056610135	BAV99S,135	BAV99S,135	BAV99S	QUADRUPLE SWITCHING I	SOT363	SC-88	RFS						No					Bipolar Discretes
934056610135	BAV99S,135	BAV99S,135	BAV99S	QUADRUPLE SWITCHING I	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934664574135	BAV99S-QF	BAV99S-QF	BAV99S-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934664574135	BAV99S-QF	BAV99S-QF	BAV99S-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934664574115	BAV99S-QX	BAV99S-QX	BAV99S-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934664574115	BAV99S-QX	BAV99S-QX	BAV99S-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934045730115	BAW56S,115	BAW56S,115	BAW56S	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934045730115	BAW56S,115	BAW56S,115	BAW56S	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934045730135	BAW56S,135	BAW56S,135	BAW56S	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934045730135	BAW56S,135	BAW56S,135	BAW56S	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663654135	BAW56S-QF		BAW56S-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663654135	BAW56S-QF		BAW56S-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663654115	BAW56S-QX		BAW56S-Q	High-speed switching diod	SOT363	SC-88	RFS						No					Bipolar Discretes
934663654115	BAW56S-QX		BAW56S-Q	High-speed switching diod	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934063471115	BC846BPN,115	BC846BPN,115	BC846BPN	65 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934063471115	BC846BPN,115	BC846BPN,115	BC846BPN	65 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663882115	BC846BPN-QX	BC846BPN-QX	BC846BPN-Q	65 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663882115	BC846BPN-QX	BC846BPN-QX	BC846BPN-Q	65 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934063582115	BC846BS,115	BC846BS,115	BC846BS	65 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934063582115	BC846BS,115	BC846BS,115	BC846BS	65 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934063582135	BC846BS,135	BC846BS,135	BC846BS	65 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934063582135	BC846BS,135	BC846BS,135	BC846BS	65 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663691135	BC846BS-QF	BC846BS-QF	BC846BS-Q	65 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663691135	BC846BS-QF	BC846BS-QF	BC846BS-Q	65 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663691115	BC846BS-QX	BC846BS-QX	BC846BS-Q	65 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663691115	BC846BS-QX	BC846BS-QX	BC846BS-Q	65 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055429115	BC846S,115	BC846S,115	BC846S	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934055429115	BC846S,115	BC846S,115	BC846S	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055429125	BC846S,125	BC846S,125	BC846S	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934055429125	BC846S,125	BC846S,125	BC846S	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663604135	BC846S-QF	BC846S-QF	BC846S-Q	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663604135	BC846S-QF	BC846S-QF	BC846S-Q	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934663604125	BC846S-QH	BC846S-QH	BC846S-Q	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934663604125	BC846S-QH	BC846S-QH	BC846S-Q	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663604115	BC846S-QX	BC846S-QX	BC846S-Q	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934663604115	BC846S-QX	BC846S-QX	BC846S-Q	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663604165	BC846S-QZ		BC846S-Q	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934663604165	BC846S-QZ		BC846S-Q	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055429135	BC846SF		BC846S	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934055429135	BC846SF		BC846S	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055429165	BC846SZ	BC846SZ	BC846S	NPN general purpose doub	SOT363	SC-88	RFS						No					Bipolar Discretes
934055429165	BC846SZ	BC846SZ	BC846S	NPN general purpose doub	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042530115	BC847BPN,115	BC847BPN,115	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934042530115	BC847BPN,115	BC847BPN,115	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042530125	BC847BPN,125	BC847BPN,125	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934042530125	BC847BPN,125	BC847BPN,125	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042530135	BC847BPN,135	BC847BPN,135	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934042530135	BC847BPN,135	BC847BPN,135	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042530165	BC847BPN,165	BC847BPN,165	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934042530165	BC847BPN,165	BC847BPN,165	BC847BPN	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663631135	BC847BPN-QF	BC847BPN-QF	BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663631135	BC847BPN-QF	BC847BPN-QF	BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663631125	BC847BPN-QH	BC847BPN-QH	BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663631125	BC847BPN-QH	BC847BPN-QH	BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663631115	BC847BPN-QX	BC847BPN-QX	BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663631115	BC847BPN-QX	BC847BPN-QX	BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663631165	BC847BPN-QZ		BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663631165	BC847BPN-QZ		BC847BPN-Q	45 V, 100 mA NPN/PNP ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042520115	BC847BS,115	BC847BS,115	BC847BS	45 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934042520115	BC847BS,115	BC847BS,115	BC847BS	45 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042520135	BC847BS,135	BC847BS,135	BC847BS	45 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934042520135	BC847BS,135	BC847BS,135	BC847BS	45 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663640135	BC847BS-QF	BC847BS-QF	BC847BS-Q	45 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663640135	BC847BS-QF	BC847BS-QF	BC847BS-Q	45 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663640115	BC847BS-QX	BC847BS-QX	BC847BS-Q	45 V, 100 mA NPN/NPN ger	SOT363	SC-88	RFS						No					Bipolar Discretes
934663640115	BC847BS-QX	BC847BS-QX	BC847BS-Q	45 V, 100 mA NPN/NPN ger	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934063583115	BC856BS,115	BC856BS,115	BC856BS	BC856BS	SOT363	SC-88	RFS						No					Bipolar Discretes
934063583115	BC856BS,115	BC856BS,115	BC856BS	BC856BS	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934063583135	BC856BS,135	BC856BS,135	BC856BS	BC856BS	SOT363	SC-88	RFS						No					Bipolar Discretes
934063583135	BC856BS,135	BC856BS,135	BC856BS	BC856BS	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934665669115	BC856BS-QX	BC856BS-QX	BC856BS-Q	BC856BS	SOT363	SC-88	RFS						No					Bipolar Discretes
934665669115	BC856BS-QX	BC856BS-QX	BC856BS-Q	BC856BS	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055680115	BC856S,115	BC856S,115	BC856S	65 V, 100 mA PNP/PNP gen	SOT363	SC-88	RFS						No					Bipolar Discretes
934055680115	BC856S,115	BC856S,115	BC856S	65 V, 100 mA PNP/PNP gen	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055680125	BC856S,125	BC856S,125	BC856S	65 V, 100 mA PNP/PNP gen	SOT363	SC-88	RFS						No					Bipolar Discretes
934055680125	BC856S,125	BC856S,125	BC856S	65 V, 100 mA PNP/PNP gen	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663647135	BC856S-QF	BC856S-QF	BC856S-Q	65 V, 100 mA PNP/PNP gen	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663647135	BC856S-QF	BC856S-QF	BC856S-Q	65 V, 100 mA PNP/PNP gen	SOT363	SC-88	RFS						No					Bipolar Discretes
934663647125	BC856S-QH		BC856S-Q	65 V, 100 mA PNP/PNP gen	SOT363	SC-88	RFS						No					Bipolar Discretes
934663647125	BC856S-QH		BC856S-Q	65 V, 100 mA PNP/PNP gen	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663647115	BC856S-QX	BC856S-QX	BC856S-Q	65 V, 100 mA PNP/PNP gen	SOT363	SC-88	RFS						No					Bipolar Discretes
934663647115	BC856S-QX	BC856S-QX	BC856S-Q	65 V, 100 mA PNP/PNP gen	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055680135	BC856SF	BC856SF	BC856S	65 V, 100 mA PNP/PNP gen	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934055680135	BC856SF	BC856SF	BC856S	65 V, 100 mA PNP/PNP gen	SOT363	SC-88	RFS						No					Bipolar Discretes
934042510115	BC857BS,115	BC857BS,115	BC857BS	PNP general purpose doubl	SOT363	SC-88	RFS						No					Bipolar Discretes
934042510115	BC857BS,115	BC857BS,115	BC857BS	PNP general purpose doubl	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934042510135	BC857BS,135	BC857BS,135	BC857BS	PNP general purpose doubl	SOT363	SC-88	RFS						No					Bipolar Discretes
934042510135	BC857BS,135	BC857BS,135	BC857BS	PNP general purpose doubl	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663552135	BC857BS-QF	BC857BS-QF	BC857BS-Q	PNP general purpose doubl	SOT363	SC-88	RFS						No					Bipolar Discretes
934663552135	BC857BS-QF	BC857BS-QF	BC857BS-Q	PNP general purpose doubl	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934663552115	BC857BS-QX	BC857BS-QX	BC857BS-Q	PNP general purpose doubl	SOT363	SC-88	RFS						No					Bipolar Discretes
934663552115	BC857BS-QX	BC857BS-QX	BC857BS-Q	PNP general purpose doubl	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934668896115	BCM846BS-QX	BCM846BS-QX	BCM846BS-Q	BJT Matched Pair	SOT363	SC-88	RFS						No					Bipolar Discretes
934668896115	BCM846BS-QX	BCM846BS-QX	BCM846BS-Q	BJT Matched Pair	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934069545115	BCM846BSX	BCM846BSX	BCM846BS	NPN/NPN matched double	SOT363	SC-88	RFS						No					Bipolar Discretes
934069545115	BCM846BSX	BCM846BSX	BCM846BS	NPN/NPN matched double	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934058507115	BCM847BS,115	BCM847BS,115	BCM847BS	NPN/NPN matched double	SOT363	SC-88	RFS						No					Bipolar Discretes
934058507115	BCM847BS,115	BCM847BS,115	BCM847BS	NPN/NPN matched double	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934058507135	BCM847BS,135	BCM847BS,135	BCM847BS	NPN/NPN matched double	SOT363	SC-88	RFS						No					Bipolar Discretes
934058507135	BCM847BS,135	BCM847BS,135	BCM847BS	NPN/NPN matched double	SOT363-3	SC-88	RFS						No					Bipolar Discretes
934668897115	BCM847BS-QX	BCM847BS-QX	BCM847BS-Q	BJT Matched Pair	SOT363	SC-88	RFS						No					Bipolar Discretes
934668897115	BCM847BS-QX	BCM847BS

934663629115	PUMD9-QX	PUMD9-QX	PUMD9-Q	NPN/PNP resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663629115	PUMD9-QX	PUMD9-QX	PUMD9-Q	NPN/PNP resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663629165	PUMD9-QZ	PUMD9-QZ	PUMD9-Q	NPN/PNP resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663629165	PUMD9-QZ	PUMD9-QZ	PUMD9-Q	NPN/PNP resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934054827115	PUMH1,115	PUMH1,115	PUMH1	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934054827115	PUMH1,115	PUMH1,115	PUMH1	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934664456115	PUMH1-QX	PUMH1-QX	PUMH1-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934664456115	PUMH1-QX	PUMH1-QX	PUMH1-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934056189115	PUMH10,115	PUMH10,115	PUMH10	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934056189115	PUMH10,115	PUMH10,115	PUMH10	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934056189125	PUMH10,125	PUMH10,125	PUMH10	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934056189125	PUMH10,125	PUMH10,125	PUMH10	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663778125	PUMH10-QAX	PUMH10-QAX	PUMH10-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663778125	PUMH10-QAX	PUMH10-QAX	PUMH10-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663778115	PUMH10-QX	PUMH10-QX	PUMH10-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663778115	PUMH10-QX	PUMH10-QX	PUMH10-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663778165	PUMH10-QZ	PUMH10-QZ	PUMH10-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663778165	PUMH10-QZ	PUMH10-QZ	PUMH10-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934056189165	PUMH10Z	PUMH10Z	PUMH10	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934056189165	PUMH10Z	PUMH10Z	PUMH10	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934049930115	PUMH11,115	PUMH11,115	PUMH11	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934049930115	PUMH11,115	PUMH11,115	PUMH11	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663834135	PUMH11-QF	PUMH11-QF	PUMH11-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663834135	PUMH11-QF	PUMH11-QF	PUMH11-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663834115	PUMH11-QX	PUMH11-QX	PUMH11-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663834115	PUMH11-QX	PUMH11-QX	PUMH11-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934049930135	PUMH11F	PUMH11F	PUMH11	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934049930135	PUMH11F	PUMH11F	PUMH11	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934057894115	PUMH13,115	PUMH13,115	PUMH13	NPN/NPN double Resistor- SOT363	SC-88	RFS	No	Bipolar Discretes
934057894115	PUMH13,115	PUMH13,115	PUMH13	NPN/NPN double Resistor- SOT363-3	SC-88	RFS	No	Bipolar Discretes
934664453135	PUMH13-QF	PUMH13-QF	PUMH13-Q	NPN/NPN double Resistor- SOT363-3	SC-88	RFS	No	Bipolar Discretes
934664453135	PUMH13-QF	PUMH13-QF	PUMH13-Q	NPN/NPN double Resistor- SOT363	SC-88	RFS	No	Bipolar Discretes
934664453115	PUMH13-QX	PUMH13-QX	PUMH13-Q	NPN/NPN double Resistor- SOT363	SC-88	RFS	No	Bipolar Discretes
934664453115	PUMH13-QX	PUMH13-QX	PUMH13-Q	NPN/NPN double Resistor- SOT363-3	SC-88	RFS	No	Bipolar Discretes
934057894135	PUMH13F	PUMH13F	PUMH13	NPN/NPN double Resistor- SOT363	SC-88	RFS	No	Bipolar Discretes
934057894135	PUMH13F	PUMH13F	PUMH13	NPN/NPN double Resistor- SOT363-3	SC-88	RFS	No	Bipolar Discretes
934055787115	PUMH2,115	PUMH2,115	PUMH2	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934055787115	PUMH2,115	PUMH2,115	PUMH2	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663836135	PUMH2-QF		PUMH2-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663836135	PUMH2-QF		PUMH2-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663836115	PUMH2-QX	PUMH2-QX	PUMH2-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663836115	PUMH2-QX	PUMH2-QX	PUMH2-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934055787135	PUMH2F		PUMH2	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934055787135	PUMH2F		PUMH2	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934055557115	PUMH9,115	PUMH9,115	PUMH9	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934055557115	PUMH9,115	PUMH9,115	PUMH9	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934055557125	PUMH9,125	PUMH9,125	PUMH9	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934055557125	PUMH9,125	PUMH9,125	PUMH9	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934055557135	PUMH9,135	PUMH9,135	PUMH9	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934055557135	PUMH9,135	PUMH9,135	PUMH9	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934055557165	PUMH9,165		PUMH9	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934055557165	PUMH9,165		PUMH9	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663635135	PUMH9-QF	PUMH9-QF	PUMH9-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663635135	PUMH9-QF	PUMH9-QF	PUMH9-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663635125	PUMH9-QH		PUMH9-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663635125	PUMH9-QH		PUMH9-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663635115	PUMH9-QX	PUMH9-QX	PUMH9-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663635115	PUMH9-QX	PUMH9-QX	PUMH9-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934663635165	PUMH9-QZ		PUMH9-Q	NPN/NPN resistor-equippe SOT363	SC-88	RFS	No	Bipolar Discretes
934663635165	PUMH9-QZ		PUMH9-Q	NPN/NPN resistor-equippe SOT363-3	SC-88	RFS	No	Bipolar Discretes
934034200115	PUMT1,115	PUMT1,115	PUMT1	PNP general purpose doubl SOT363	SC-88	RFS	No	Bipolar Discretes
934034200115	PUMT1,115	PUMT1,115	PUMT1	PNP general purpose doubl SOT363-3	SC-88	RFS	No	Bipolar Discretes
934669272115	PUMT1-QX		PUMT1-Q	BJT General Purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934669272115	PUMT1-QX		PUMT1-Q	BJT General Purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934034210115	PUMX1,115	PUMX1,115	PUMX1	40 V, 100 mA NPN/NPN ger SOT363	SC-88	RFS	No	Bipolar Discretes
934034210115	PUMX1,115	PUMX1,115	PUMX1	40 V, 100 mA NPN/NPN ger SOT363-3	SC-88	RFS	No	Bipolar Discretes
934669273115	PUMX1-QX		PUMX1-Q	BJT General Purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934669273115	PUMX1-QX		PUMX1-Q	BJT General Purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934059964115	PUMX2,115	PUMX2,115	PUMX2	NPN/NPN general-purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934059964115	PUMX2,115	PUMX2,115	PUMX2	NPN/NPN general-purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934059964125	PUMX2,125		PUMX2	NPN/NPN general-purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934059964125	PUMX2,125		PUMX2	NPN/NPN general-purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934669290125	PUMX2-QH		PUMX2-Q	BJT General Purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934669290125	PUMX2-QH		PUMX2-Q	BJT General Purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934669290115	PUMX2-QX		PUMX2-Q	BJT General Purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934669290115	PUMX2-QX		PUMX2-Q	BJT General Purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934034220115	PUMZ1,115	PUMZ1,115	PUMZ1	NPN/PNP general purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934034220115	PUMZ1,115	PUMZ1,115	PUMZ1	NPN/PNP general purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes
934669274115	PUMZ1-QX		PUMZ1-Q	BJT General Purpose SOT363	SC-88	RFS	No	Bipolar Discretes
934669274115	PUMZ1-QX		PUMZ1-Q	BJT General Purpose SOT363-3	SC-88	RFS	No	Bipolar Discretes

CN-202606006F

Release of SOT363 Package on STS (Strip-to-Strip) Backend Assembly Platform - Wave 1

Revision: 02 July 2026 **Self Qualification Report**

Document Information

Information	Content
Author	
Supplier	Nexperia
Document Number	CN-202606006F

Revision History

Revision Date	Description
02 July 2026	New document

Contact Information

For more information, please contact: pcn@nexperia.com

nexperia

Table of Contents

1. Subject 3
2. Introduction 3
3. Material and process details 3
   3.1 Material 4
   3.2 Leadframe dimension 4
   3.3 Process technology and flow 5
4. Reliability test program 5
   4.1 Qualification strategy 6
5. Constructional details of test vehicles 6
6. Affected product types 6
7. Qualification report 6
8. Electrical and thermal performance 12
   8.1 Electrical performance 12
   8.2 Thermal performance 12
9. Comparison of visual appearance 12
10. Traceability 12
11. Conclusion 12
12. Legal Disclaimer 12

1. Subject

This Self Qualification Report gives background information about the qualification for the release of SOT363 package on STS (strip-to-strip) backend assembly platform. It refers to Nexperia CN-202606006F.

2. Introduction

As part of Nexperia's continuous improvement and long-term capacity strategy, we are releasing the SOT363 package on STS (strip-to-strip) backend assembly platform.

This initiative is not only intended to expand capacity but also to support a gradual transition of SOT363 package assembly from the existing BIM (reel-to-reel) platform to the STS platform. The introduction of STS technology will enhance manufacturing flexibility, increase throughput, and support future production growth using advanced backend technologies.

The assembly and test location does not change and remains Nexperia's backend site ATSN (Seremban, Malaysia). With the transition from BIM to STS the same process flow and process technologies remain unchanged in place. For the processing in STS assembly platform, some materials are replaced to be STS-compatible as described below.

3. Material and process details

Change items affected by this PCN are outlined in Table 1, along with their associated ZVEI identification numbers, and detailed in the subsections.

Before this release, the SOT363 package was assembled only on the BIM platform. After the release, it may be assembled on either the STS or BIM platform.

Table 1: Changes announced by this PCN for release of SOT363 package on STS assembly platform

	Before	After		**ZVEI**
Change Item	**BIM (reel-to-reel)**	**BIM (reel-to-reel)**	**STS (strip-to-strip)**	**DeQuMa**
Mold compound	Hysol GR646(CHN) Sumitomo EME-E500HK	Hysol GR646(CHN) Sumitomo EME-E500HK	Sumitomo EME-G700KC	SEM-PA-11
Leadframe base material	FeNi42 with Cu plating	FeNi42 with Cu plating	C19400 (Cu)	SEM-PA-02
Leadframe dimensions	Lead width *bp* = 0.3 – 0.2	Lead width *bp* = 0.3 – 0.15		SEM-PA-03
Tech. contractual agreements	Package version SOT363	Package version SOT363-3		SEM-AN-01
Production equipment	Reel-to-reel	Reel-to-reel	Strip-to-strip	SEM-EQ-02

All information provided in this document is subject to legal disclaimers. © 2026 Nexperia B.V. / V1.3.

3.1 Material

As part of the release of SOT363 package on STS, the bill of materials (BOM) is adapted to ensure compatibility with the STS assembly platform. The only material changes are the mold compound and the leadframe base material. The changed materials are from well-established suppliers for Nexperia, already in use at Nexperia in other packages, and are standard in semiconductor packaging.

3.2 Leadframe dimension

The introduction of the changed leadframe base material requires a slight relaxation of the lower specification limit for the lead width *bp* (SOT363 package with 6 leads; see Figure 1). This lead width *bp* remains compliant with the JEITA SC-88 standard and is a typical dimension for this package in the semiconductor industry.

The solder footprint remains unchanged, so the SOT363 package stays fully compatible with existing PCB footprints.

A revised data sheet will be released to include the updated lead width in its package outline. For clarity, the updated SOT363 package version will be designated as SOT363-3 after implementation of this change.

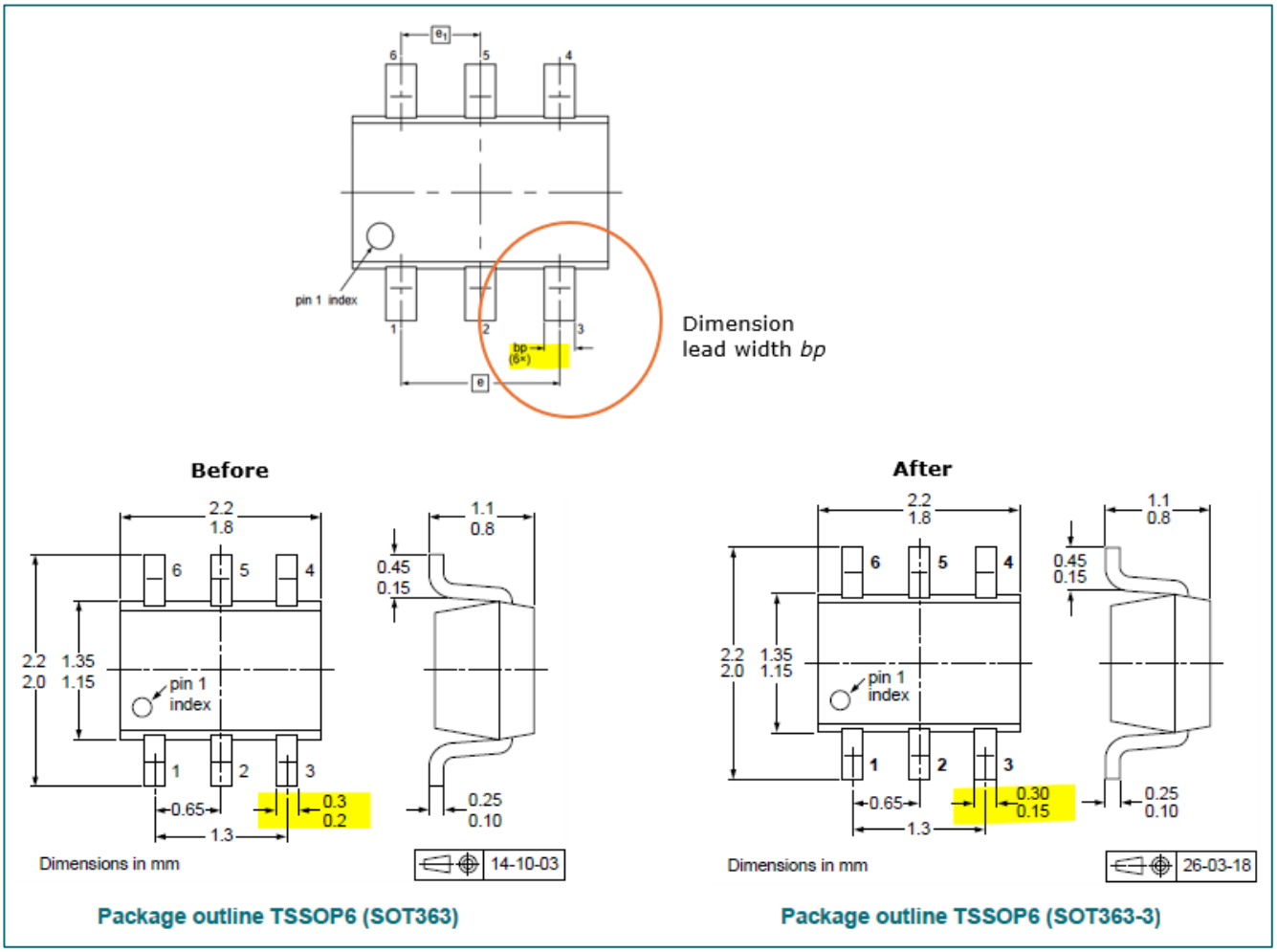

Figure 1: Lead width *bp* and package outline version for SOT363 (before) vs. SOT363-3 (after)

All information provided in this document is subject to legal disclaimers. © 2026 Nexperia B.V. / V1.3.

3.3 Process technology and flow

Processing in strip format on the STS assembly platform does not change the basic process technologies or the general process flow currently used on the BIM line. The existing quality standards and control plan remain unchanged.

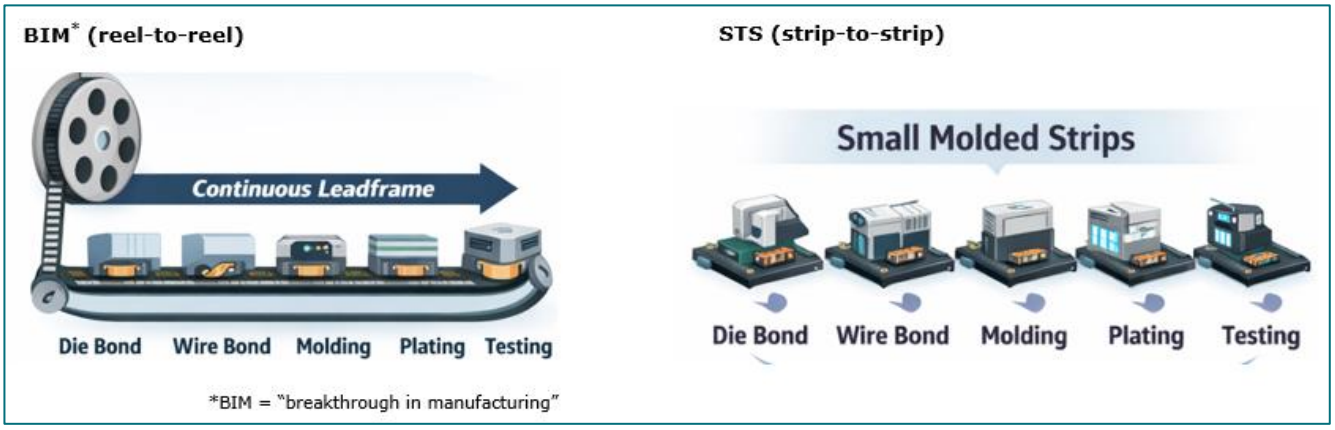

Figure 2: Simplified schematic of BIM (reel-to-reel) vs. STS (strip-to-strip) assembly concept

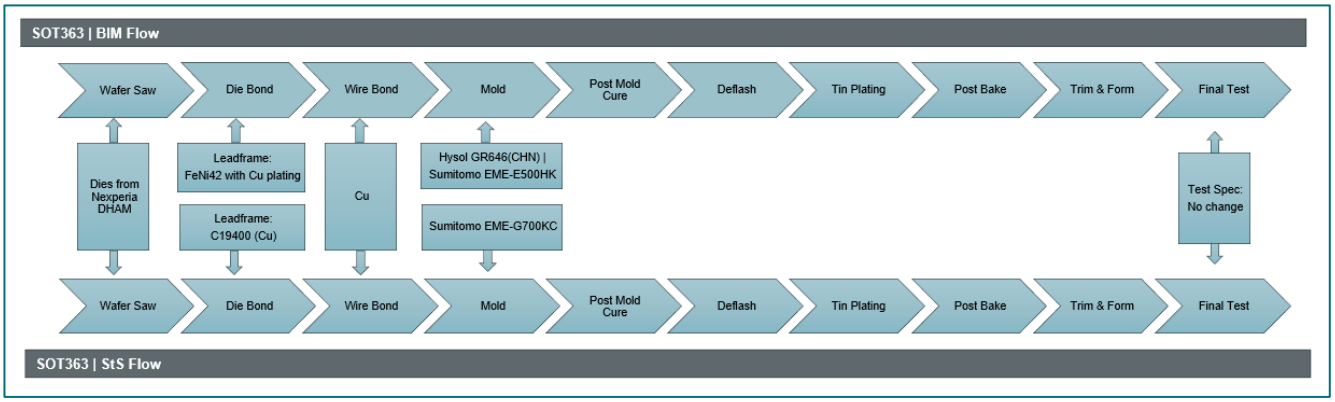

Figure 3: Process flow comparison for assembly platform of BIM (reel-to-reel) vs. STS (strip-to-strip)

No changes other than those described above are introduced. In particular, the frontend wafer processing and dies remain unchanged. Therefore, there is no impact on product specifications or performance.

4. Reliability test program

In line with AEC-Q101 and Nexperia General Quality Specification, the product types to be changed have been combined to generic leader type families due to their structural similarity. To validate the assembly quality and reliability performance an extensive qualification program has been performed.

All information provided in this document is subject to legal disclaimers.
© 2026 Nexperia B.V. / V1.3.

4.1 Qualification strategy

The qualification plan had been developed based on FMEA risk assessment. Potential failures have been identified and addressed in qualification. Three leader types have been selected based on structural similarity to represent the affected product types (see Table 2 for details).

5. Constructional details of test vehicles

The representative leader types for the qualification of the affected product types in this PCN are presented in Table 2.

Table 2: Leader types used for qualification

Product	Package	Technology	Leader type description	Material used for qualification	
				Mold compound	Leadframe
BAS16VY	SOT363-3	High-speed switching diode	High voltage	EME-G700KC	C19400
BAS40XY	SOT363-3	Schottky diode	Smallest die	EME-G700KC	C19400
PMBT2227AYS-Q	SOT363-3	Switching transistor	Largest die	EME-G700KC	C19400

6. Affected product types

The affected product types to be released with this PCN are listed in the file "CN-202606006F_Change-Matrix.xlsx" attached to this PCN.

7. Qualification report

The qualification as reported in the summary below (Table 3) has been carried out to release all affected product types mentioned in this PCN.

Table 3: Qualification results according to AEC-Q101-Rev-E

Test Group A – Accelerated Environment Stress Tests

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
A1	**PC** Pre-conditioning	JEDEC/IPC J-STD-020, JESD22-A-113, TEST before and after PC	acc. to MSL 1	BAS16VY BAS40XY PMBT2227AYS-Q	- see notes -		0
	Notes:	All qualification parts prior to tests #A2alt H^3TRB, #A3 UHAST, #A4 TC/TCHT/TCDT, #A5 IOL/PTC and #C8 RSH.					
A2	**HAST** Highly Accelerated Stress Test	JEDEC JESD22-A-110 T_A = 130 °C, RH = 85 %, V_R = see notes	96 hours	N/A	N/A	N/A	N/A
	Notes:	Omitted in lieu of alternative test, see test #A2 alt (H^3TRB).					

All information provided in this document is subject to legal disclaimers. © 2026 Nexperia B.V. / V1.3.

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
A2 alt	**H^3TRB** High Humidity High Temperature Reverse Bias	JEDEC JESD22-A-101 T_A = 85 °C, RH = 85 %, V_R = see notes (80% rated V_R)	1000 hours	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	77 77 77	0 0 0
	Notes:	V_R: BAS16VY = 80V, BAS40XY = 32V, PMBT2227AYS-Q = 32V					
A3	**UHAST** Unbiased HAST	JEDEC JESD22-A-118 T_A = 130 °C, RH = 85 %	96 hours	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	77 77 77	0 0 0
	Notes:	-					
A3 alt	**AC** Autoclave	JEDEC JESD22-A-102 T_A = 121 °C, RH = 100 %, p = 15 psig	96 hours	N/A	N/A	N/A	N/A
	Notes:	Omitted in lieu of alternative test, see test #A3 (UHAST).					
A4	**TC** Temperature Cycling	JEDEC JESD22-A-104 Appendix 6 T_A = -65 °C to 150 °C	1000 cycles	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	77 77 77	0 0 0
	Notes:	-					
A4a	**TCHT** Temperature Cycling Hot Test	JEDEC JESD22-A-104 Appendix 6	1000 cycles	N/A	N/A	N/A	N/A
	Notes:	TCHT is required for MOSFET parts with internal bond wire sizes 5 mil diameter and less. Reported parts are not MOSFET parts.					
A4a alt	**TCDT** Delamination Test	JEDEC JESD22-A-104 Appendix 6, J-STD-035	1000 cycles	N/A	N/A	N/A	N/A
	Notes:	TCDT is required for MOSFET parts with internal bond wire sizes 5 mil diameter and less. Reported parts are not MOSFET parts.					
A5	**IOL** Intermittent Operational Life	MIL-STD-750-1 Method 1037 T_A = 25 °C, $\Delta T_j \geq$ 100 °C, $t_{on} = t_{off}$ = 2 min	1000 hours	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	77 77 77	0 0 0
	Notes:	-					
A5 alt	**PTC** Power and Temperature Cycle	JESD22-A-105	1000 hours	N/A	N/A	N/A	N/A
	Notes:	Omitted in lieu of alternative test, see test # A5 (IOL).					

All information provided in this document is subject to legal disclaimers.
© 2026 Nexperia B.V. / V1.3.

Test Group B – Accelerated Lifetime Simulation Tests

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
B1	**HTRB** High Temperature Reverse Bias	MIL-STD-750-1 M1038 Condition A or M1039 Condition A $T_j = T_{jmax} = 150°C$, V_R = see notes (100% rated V_R)	1000 hours	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	77 77 77	0 0 0
	Notes:	Five samples per lot removed after 1000h for wire pull per AEC-Q101 V_R: BAS16VY = 100V, BAS40XY = 40V, PMBT2227AYS-Q = 40V					
B1a	**ACBV** AC blocking voltage	MIL-STD-750-1 M1040 Test condition A	1000 hours	N/A	N/A	N/A	N/A
	Notes:	ACBV is required for Thyristors only. Reported parts are not Thyristors.					
B1b	**SSOP** Steady State Operational	MIL-STD-750-1 M1038 Condition B (Zeners)	1000 hours	N/A	N/A	N/A	N/A
	Notes:	SSOP is required for Zener diodes only. Reported parts are not Zener diodes.					
B2	**HTGB** High Temperature Gate Bias	JEDEC JESD22-A-108	1000 hours	N/A	N/A	N/A	N/A
	HTnGB High Temperature Negative Gate Bias	JEDEC JESD22-A-108	1000 hours	N/A	N/A	N/A	N/A
	Notes:	HT(n)GB is required for MOS and IGBT parts only. Reported parts are not MOS or IGBT parts.					

Test Group C – Package Assembly Integrity Tests

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
C1	**DPA** Destructive Physical Analysis	AEC-Q101-004 Section 4 2 devices each after H^3TRB and TC	-	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	2+2 2+2 2+2	0 0 0
	Notes:	-					
C2	**PD** Physical Dimensions	JEDEC JESD22-B-100	-	PMBT2227AYS-Q	1	30	0
	Notes:	-					
C3	**WBP** Wire Bond Pull Strength	MIL-STD-750-2 Method 2037 / AEC-Q006 (Cu-wire)	-	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	5 5 5	0 0 0
	Notes:	-					

All information provided in this document is subject to legal disclaimers. © 2026 Nexperia B.V. / V1.3.

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
C4	**WBS** Wire Bond Shear Strength	AEC-Q101-003, JEDEC JESD22-B-116	-	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	5 5 5	0 0 0
	Notes:	-					
C5	**DS** Die Shear	MIL-STD-750-2 Method 2017	-	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	5 5 5	0 0 0
	Notes:	-					
C6	**TS** Terminal Strength	MIL-STD-750-2 Method 2036 evaluate lead integrity of through-hole leaded parts only	-	N/A	N/A	N/A	N/A
	Notes:	TS is required for leaded parts only. Reported parts are not leaded parts.					
C7	**RTS** Resistance to Solvents	JEDEC JESD22-B-107 verify marking permanency	-	N/A	N/A	N/A	N/A
	Notes:	RTS is not required for laser etched parts or parts with no marking. Reported parts are laser etched parts.					
C8	**RSH** Resistance to Solder Heat	JEDEC JESD22-A-111 260 °C ± 5 °C	10 s	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	30 30 30	0 0 0
	Notes:	-					
C9	**TR** Thermal Resistance	JEDEC JESD24-3, 24-4, 24-6 as appropriate	-	BAS40XY PMBT2227AYS-Q	1 1	10 10	0 0
	Notes:	-					
C10	**SD** Solderability	JEDEC J-STD-002	-	BAS16VY BAS40XY PMBT2227AYS-Q	1 1 1	10 10 10	0 0 0
	Notes:	-					
C11	**WG** Whisker Growth Evaluation	AEC-Q005	-------- according to AEC-Q005 --------				
	Notes:	Tests are performed based on structural similarity (generic family data)					
C12	**CA** Constant Acceleration	MIL-STD-750-2 Method 2006	-	N/A	N/A	N/A	N/A
	Notes:	CA is required for hermetic packaged parts only. Reported package is not a hermetic package.					
C13	**VVF** Vibration Variable Frequency	JEDEC JESD22-B-103	-	N/A	N/A	N/A	N/A
	Notes:	VVF is required for hermetic packaged parts only. Reported package is not a hermetic package.					

All information provided in this document is subject to legal disclaimers.
© 2026 Nexperia B.V. / V1.3.

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
C14	**MS** Mechanical Shock	JEDEC JESD22-B-104	-	N/A	N/A	N/A	N/A
	Notes:	MS is required for hermetic packaged parts only. Reported package is not a hermetic package.					
C15	**HER** Hermeticity	JEDEC JESD22-A-109	-	N/A	N/A	N/A	N/A
	Notes:	HER is required for hermetic packaged parts only. Reported package is not a hermetic package.					

Test Group D – Die Fabrication Reliability Tests

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
D1	**DI** Dielectric Integrity	AEC-Q101-004 Section 3	-	N/A	N/A	N/A	N/A
	Notes:	DI is required for Power MOS and IGBT parts only. Reported parts are not Power MOS or IGBT parts.					

Test Group E – Electrical Verification Tests

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
E0	**EV** External Visual	JEDEC JESD22-B-101	-	All qualification parts submitting for testing.			0
	Notes:	Inspect part construction, marking and workmanship					
E1	**TEST** Pre- and Post-Stress Electrical Test	According to supplier's standard specification	-	All qualification parts tested per the requirements of the appropriate part specification.			0
	Notes:	Test is performed as specified in the applicable stress reference at room temperature.					
E2	**PV** Parametric Verification	Over part temperature range specified in data sheet.	-	BAS16VY	1	25	0
				BAS40XY	1	25	0
				PMBT2227AYS-Q	1	25	0
	Notes:	-					
E3	**ESDH** ESD – HBM Characterization	AEC-Q101-001	-	N/A	N/A	N/A	N/A
	Notes:	No change of wafer fab processes or materials, no change of die design					

All information provided in this document is subject to legal disclaimers. © 2026 Nexperia B.V. / V1.3.

#	Stress	Test method	Duration	Tested part(s)	# of lots	Sample Size / lot	# of Fails
E4	**ESDC** ESD – CDM Characterization	AEC-Q101-005	-	N/A	N/A	N/A	N/A
	Notes:	Small packages are not able to hold enough charge and are therefore exempt from testing according to AEC-Q101-005.					
E5	**UIS** Unclamped Inductive Switching	AEC-Q101-004 Section 2	-	N/A	N/A	N/A	N/A
	Notes:	UIS is required for MOS and IGBT parts only. Reported parts are not MOS or IGBT parts.					
E6	**SC** Short Circuit Characterization	AEC-Q101-006	-	N/A	N/A	N/A	N/A
	Notes:	SC is required for smart power parts only. Reported parts are not smart power parts.					

All information provided in this document is subject to legal disclaimers.
© 2026 Nexperia B.V. / V1.3.

8. Electrical and thermal performance

8.1 Electrical performance

Full electrical characterization over temperature range has been performed. Electrical parameters remain unchanged in specification and with the same distribution.

8.2 Thermal performance

Thermal parameters remain unchanged in specification and with the same distribution.

9. Comparison of visual appearance

There is no change of visual appearance (within specification).

10. Traceability

Changed products can be identified by date code after implementation.

11. Conclusion

The products do not change functionally. Nexperia does not anticipate any negative impact on fit, form, function, and reliability.

12. Legal Disclaimer

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent – or other industrial or intellectual property rights.

All information herein is per Nexperia's best knowledge. This document does not provide for any representation or warranty expressed or implied by Nexperia.

Nexperia may implement additional changes without separate customer notification where such changes are classified as notification-exempt under the criteria defined in the ZVEI Guideline for Customer Notifications of Product and/or Process Changes (PCN) of Electronic Components specified for Automotive Applications.