

Product Change Notification

Issue date: 29 Sep 2021

Effective date: 28 Mar 2022

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.

Ouality

Last phase of assembly and test transfer SO-TSSOP14/16 packages from ATBK to ASEN (Automotive)

Change Category

- [] Wafer Fab Process
- [] Wafer Fab Materials [] Wafer Fab Location
 - [X] Assembly Location
- [X] Assembly Process [X] Assembly Materials
 - [X] Product Marking [] Mechanical Specification [] Packing/Shipping/Labeling
- [X] Test Location [] Test Process

[] Design

[] Errata

[] Test Equipment [] Electrical spec./Test coverage

Details of this change

Last phase of assembly and test transfer product types in SO14/16 and TSSOP14/16 packages from ATBK (NXP Semiconductors, Plant Bangkok Thailand) to ASEN (ASE Group, Plant Suzhou China)

- No change in wafer fab process or fab location
- No change in die (same electrical distribution)
- No change in datasheet and test limits
- No change in form, fit, function, quality or reliability anticipated

Qualification in accordance to the Automotive Electronics Council:

- AEC-Q100-rev. H Stress Test Qualification for Integrated Circuits
- AEC-Q006-rev. A Qualification requirements for Cu-wire interconnection

Please use the below link to access related documentation to this change notification https://gcm.nexperia.com/change-notification-epcn/SQR_CN-202109011F.pdf

nexperia.com



SQR_CN-202109011F.pdf: https://qcm.nexperia.com/Document/DOC-519597/SQR_CN-202109011F.pdf

Why do we implement this change?

- Last phase of transfer SO14/16 and TSSOP14/16 products into ASEN
- Create dual source capability

Identification of affected products

- The traceability is given by the assembly location indicator suffix which is indicated on the product topside marking and on the reel and box label, see remarks

Management summary

Last phase of assembly and test transfer product types in SO14/16 and TSSOP14/16 packages from ATBK (NXP Semiconductors, Plant Bangkok Thailand) to ASEN (ASE Group, Plant Suzhou China)

Product availability

Production

Planned first shipment: 31 Mar 2022

Sample information

Samples are available upon request

Impact

Impact to the product's functionality is anticipated

- No change in form, fit, function, quality or reliability anticipated
- No change in die (same electrical distribution)
- No change in datasheet and test limits

Data sheet revision

No impact to existing datasheet

Disposition of old products

Not applicable, products will continue to be assembled in ATBK

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 29 Oct 2021. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

View Change Notification Online

Remarks

Assembly location indicator suffix on the product topside marking and on the reel and box label: "X"= ASEN (ASE Group Assembly & Test Plant Suzhou China) "n"= ATBK (NXP Semiconductors Assembly & Test Plant Bangkok, Thailand)

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: pcn@nexperia.com

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.

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m_nam	rablePartNumb	tomerPartNum	ype_nam	_descripti	ersion_descripti	e_descripti	em_sta	ontinuationTy	_availabili	m_sour	stTimeBuyDa	stTimeShipD	merSpecificIndica	m_orderablePartNum	SalesItem_na	roductType_na	sicType_descripti	e_descripti
e	er	ber	e	on	on	on	te	ре	ty	ce	te	ate	tor	ber	me	me	on	on
				8-bit														
				parallel-														
			74HC166	in/serial														
935301	74HC166PW-		PW-	out shift														Analog &
536118	Q100J		Q100	register	SOT403-1	TSSOP16	RFS						No					Logic ICs
				Presettabl														
				е														
				synchrono														
				us 4-bit														
			74HC193	binary														
935300	74HC193PW-		PW-	up/down														Analog &
446118	Q100J		Q100	counter	SOT403-1	TSSOP16	RFS						No					Logic ICs
935300	74HC4024D-		74HC402	7-stage														Analog &
883118	Q100J		4D-Q100	binary	SOT108-1	SO14	RFS						No					Logic ICs

				ripple				1			1		
				counter									
935302	74HC4075D-		74HC407	input OR									Analog &
013118	Q100J		5D-Q100	gate	SOT108-1	SO14	RFS					No	Logic ICs
035303	741104075014		74HC407	Triple 3-									
935302 014118	Q100J		0100	gate	SOT402-1	TSSOP14	RFS					No	Logic ICs
				Dual 4-bit			-						
025205	7411045200		74110450	synchrono									
935305 392118	74HC4520D- 0100J		74HC452 0D-0100	us binary counter	SOT109-1	SO16	RES					No	Analog & Logic ICs
				Dual									
				retriggera									
				precision									
				monostabl									
025200	7411045200044	741104520004/	74HC453	e									Angles 8
935298 859118	0100.11	0100.11	0100	tor	SOT403-1	TSSOP16	RFS					No	Logic ICs
				8-bit shift									
025200	741105070144		74HC597	register									Angles 8
935300 348118	Q100J		Q100	flip-flops	SOT403-1	TSSOP16	RFS					No	Logic ICs
				Hex non-									
				inverting									
935301	74HC7014D-	74HC7014D-	74HC701	Schmitt-									Analog &
183118	Q100J	Q100J	4D-Q100	trigger	SOT108-1	SO14	RFS					No	Logic ICs
				Presettabl									
				e svnchrono									
				us 4-bit									
025200	741107102014/		74HCT19	binary									Analog 8
452118	Q100J		Q100	counter	SOT403-1	TSSOP16	RFS					No	Logic ICs
			74HCT40	Triple 3-									Ŭ
935302	74HCT4075D-		75D-	input OR	COT109 1	5014	DEC					No	Analog &
015118	Q100J		Q100	Dual 4-bit	501108-1	5014	KFS						LOGICICS
			74HCT45	synchrono									
935305	74HCT4520D-		20D-	us binary	SOT100 1	5016	DEC					No	Analog &
448118	Q1003		Q100	Dual	501109-1	5016	KF5						LOGICICS
				retriggera									
				ble									
				monostabl									
			74HCT45	e									
935298	74HCT4538PW-		38PW-	multivibra	SOT402-1	TSSOP16	DEC					No	Analog &
802118	Q100,1		QIUU	14-stage	301403-1	1330F10	KI 3						Logic ICS
935304	HEF4020BT-		HEF4020	binary									Analog &
366118	Q100J		BT-Q100	counter	SOT109-1	SO16	RFS					No	 Logic ICs
				single-									
				pole									
				double-									
935300	HEF4053BT-		HEF4053	analog									Analog &
213118	Q100J		BT-Q100	switch	SOT109-1	SO16	RFS					No	 Logic ICs
				Triple									
				pole									
				double-									
025200			HEF4053	throw									Analog 9
214118	Q100J		Q100	switch	SOT403-1	TSSOP16	RFS					No	Logic ICs
935302	HEF4541BT-	HEF4541BT-	HEF4541	Programm									Analog &
266518	Q100Y	Q100Y	BT-Q100	able timer	SOT108-1	SO14	RFS					No	Logic ICs