



Product Change Notification



Product Group: SIL/Sun Jun 19, 2022/PCN-SIL-000403-2022-REV-0

Additional wafer Capacity for Vishay Siliconix VR Power Stages

DESCRIPTION OF CHANGE: To meet increasing demand, shorten lead time and provide a disaster recovery capability, Vishay Siliconix has expanded capacity for its ICs wafer fabrication to Global Foundry

REASON FOR CHANGE: Additional Capacity

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: There will be no effect on performance, quality or reliability.

PART NUMBERS/SERIES/FAMILIES AFFECTED: Please see materials list on the succeeding page.

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE:

Start Shipment Date: Sat Aug 20, 2022

SAMPLE AVAILABILITY: Now

PRODUCT IDENTIFICATION: Lot Number

QUALIFICATION DATA: Attached

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Wed Jul 20, 2022 or as specified by contract.

ISSUED BY: Isabelle Ciacchella, Isabelle.Ciacchella@vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

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Vishay Intertechnology, Inc.

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT



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SIC530CD-T1-GE3	SIC532CD-T1-GE3	SIC533CD-T1-GE3	SIC534CD-T1-GE3	SIC536CD-T1-GE3
SIC546CD-T1-GE3	SIC621CD-T1-GE3	SIC631CD-T1-GE3	SIC634CD-T1-GE3	SIC657CD-T1-GE3

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PCN-SIL-000403-2022 QUALIFICATION DATA

SICx / SIC63x
Global Foundry
Qualification Data

June 2022



PCN-SIL-000403-2022 QUALIFICATION DATA

Reliability Test Results

<u>EVAL</u>	<u>STRESS</u>	<u>STEP</u>	<u>TEST</u>	<u>CONDITION</u>	<u>HR-CYC</u>	<u>S</u>	<u>S</u>	<u>FAIL</u>	<u>DONE</u>	<u>TEST</u>	<u>FAIL</u>
*****	*****	****	*****	*****	*****	****	****	****	****	****	****
<u>2160055</u>	DYN OP LIF	0	DYN OP LF (12		0	84	0	X		ET	
		1	DYN OP LF (12		168	84	0	X		ET	
		2	DYN OP LF (12		500	84	0	X		ET	
		3	DYN OP LF (12		1000	84	0	X		ET	
	ESD - C D	0	ESD' - C D MO		0	18	0	X		ET	
		1	ESD' - C D MO		125	3	0	X		ET	
		2	ESD' - C D MO		250	3	0	X		ET	
		3	ESD' - C D MO		500	3	0	X		ET	
		4	ESD' - C D MO		750	3	0	X		ET	
		5	ESD' - C D MO		1000	3	0	X		ET	
	ESD - H B	6	ESD' - C D MO		1500	3	0	X		ET	
		0	ESD' - H B MO		0	27	0	X		ET	
		1	ESD' - H B MO		125	3	0	X		ET	
		2	ESD' - H B MO		250	3	0	X		ET	
		3	ESD' - H B MO		500	3	0	X		ET	
		4	ESD' - H B MO		750	3	0	X		ET	
		5	ESD' - H B MO		1000	3	0	X		ET	
		6	ESD' - H B MO		1500	3	0	X		ET	
	LATCH-UP	7	ESD' - H B MO		2000	3	0	X		ET	
		8	ESD' - H B MO		2500	3	0	X		ET	
		9	ESD' - H B MO		3000	3	0	X		ET	
		0	LATCH-UP		0	24	0	X		ET	
		1	LATCH-UP		100	6	0	X		ET	
		2	LATCH-UP		150	6	0	X		ET	
		3	LATCH-UP		100	6	0	X		ET	
		4	LATCH-UP		150	6	0	X		ET	

PART NUMBER: SIC634CD-T1

GEOMETRY: ISL95808B

DATE CODE:

PURPOSE: QUALIFICATION

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PCN-SIL-000403-2022 QUALIFICATION DATA

Validation Results

EVAL	STRESS	STEP	TEST CONDITION	HR/CYC /VOLT	S S	FAIL	DONE	TEST TYPE	FAIL CODE
*****	*****	****	*****	*****	****	****	****	****	****
2180570	VALIDATION	0	REFLOW+250CYS	0	3000	0	X	ET	
		1	REFLOW+250CYS	250	3000	0	X	ET	

PART NUMBER: SIC634CD-T1
GEOMETRY: ISL9NSBBN
LOT #: K01Y018.3
DATE CODE: T124AA
PURPOSE: MLP55-31/NSAENSZC/SIC634 QUAL

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PCN-SIL-000403-2022 QUALIFICATION DATA

Reliability Test Results

EVAL	STRESS	STEP	TEST CONDITION	HR-CYC	S	S	FAIL	DONE	TEST TYPE	FAIL CODE
*****	*****	****	*****	*****	****	****	****	****	****	****
<u>2260012</u>	<u>SS</u> OP LIFE	0	HIGH TEMP OP	0	85	0	X		ET	
		1	HIGH TEMP OP	168	85	0	X		ET	
		2	HIGH TEMP OP	500	85	0	X		ET	
		3	HIGH TEMP OP	1000	85	0	X		ET	

PART NUMBER: SIC634CD
 GEOMETRY: ISL95808
 DATE CODE:
 PURPOSE: QUALIFICATION

EVAL	STRESS	STEP	TEST CONDITION	HR-CYC	S	S	FAIL	DONE	TEST TYPE	FAIL CODE
*****	*****	****	*****	*****	****	****	****	****	****	****
<u>2260013</u>	<u>SS</u> OP LIFE	0	HIGH TEMP OP	0	85	0	X		ET	
		1	HIGH TEMP OP	168	85	0	X		ET	
		2	HIGH TEMP OP	500	85	0	X		ET	
		3	HIGH TEMP OP	1000	85	0	X		ET	

PART NUMBER: SIC634CD
 GEOMETRY: ISL95808
 DATE CODE:
 PURPOSE: QUALIFICATION
