



# 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.**

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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**

EVAL	STRESS	STEP	TEST	CONDITION	HR-CYC	S	S <sub>0</sub>	FAIL	DONE	TEST	FAIL
*****	*****	****	*****	*****	*****	****	****	****	****	TYPE	CODE
<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	
		6	ESD'	- C D MO	1500	3	0	X		ET	
	ESD - H B	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	
		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	
	LATCH-UP	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	FAIL
*****	*****	****	*****	*****	*****	****	****	****	****	****	****
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 <sub>0</sub>	FAIL	DONE	TEST	FAIL
*****	*****	****	*****	*****	*****	****	****	****	****	****	****
<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

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EVAL	STRESS	STEP	TEST	CONDITION	HR-CYC	S	S <sub>0</sub>	FAIL	DONE	TEST	FAIL
*****	*****	****	*****	*****	*****	****	****	****	****	****	****
<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

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