

Product Group: OPT/Fri Nov 3, 2023/PCN-OPT-1298-2023-REV-0

PCN

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VO2223 series production line transfer

For further information, please contact your regional Vishay office.

CONTACT INFORMATION

Americas	Europe	Asia
Vishay Intertechnologies, Inc.	VISHAY Semiconductor GmbH	VISHAY Intertechnology Asia Pte. Ltd.
2585 Junction Avenue	Theresienstr. 2	25 Tampines Street 92
-	-	Keppel Building # 02-00
San Jose United States 5134-1923	Heilbronn Germany 74025	Singapore Singapore 528877
Phone: +1-408-567-8358	Phone: +49-7131-7498-645	Phone: +65 6780 7879
Fax: +1-408-240-5687	Fax: +49-7131-67-3144	Fax: +65 6780 7897
jim.toal@vishay.com	boris.lazic@vishay.com	jason.soon@vishay.com

Description of Change: The VO2223 power phototriac is manufactured in our Krubong, Malaysia plant. With the implementation of an improved lead frame, mold material, and state-of-the-art MOCVD emitter, the VO2223 will be manufactured on a different production line within the same plant.

Reason for Change: Transfer to another production line with introduction of new leadframe, mold material and emitter chip.

Expected Influence on Quality/Reliability/Performance: No influence on quality, reliability and performance expected. Nevertheless, we request our customers to test the product in their specific application.

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay Semiconductors

Time Schedule:

Start Shipment Date: Thu Feb 1, 2024

Sample Availability: Components with the change implemented could start shipping on or after the start shipment date and will be a function of the availability of the material.

Product Identification: By lot code and pin 1 identifier

Qualification Data: This change has been rigorously qualified by company and industry standard

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Sun Jan 7, 2024 or as specified by contract.

Issued By: Achim Kruck, achim.kruck@vishay.com

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Product Change Notification

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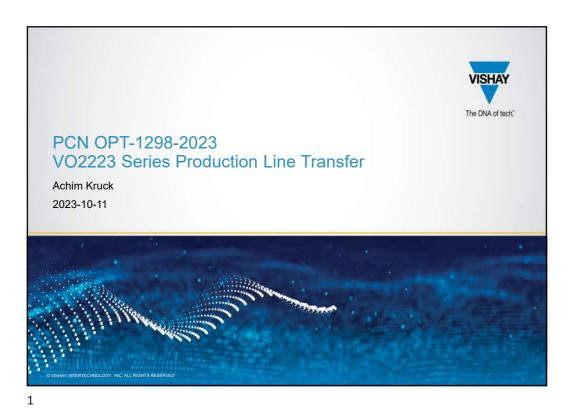
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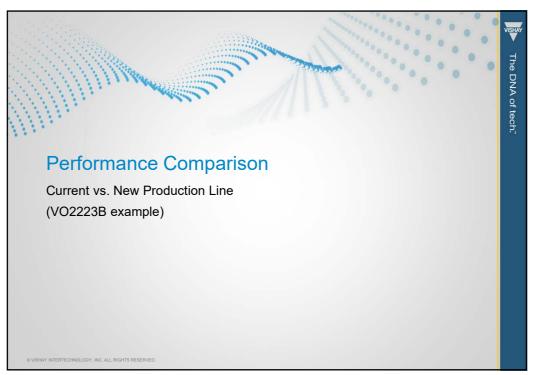
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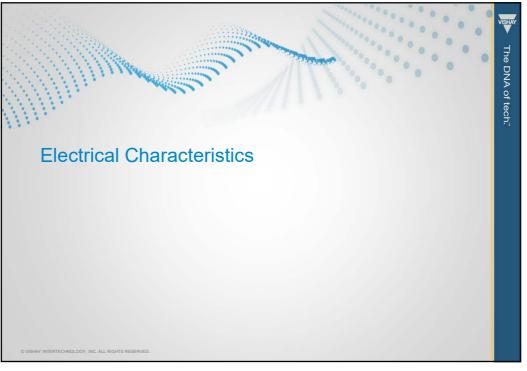
VO2223	VO2223-X001	VO2223A	VO2223A-X001	VO2223A-X007T
VO2223B	VO2223B-X017T	VO2223B-X007T	VO2223B-3122	VO2223B-X001

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Current							tec
INPUT							, S
Trigger input current	$V_{T} = 6 V$	let .	-	-	10	mA	
land the second as month	V _H = 5 V	I _R	-	-	10	μA	
Input reverse current							- I I I I I I I I I I I I I I I I I I I
Forward voltage	IF = 10 mA	VF	0.9	-	1.5	V]
Forward voltage New INPUT	l _F = 10 mA						1
Forward voltage New INPUT Trigger input current	l _F = 10 mA	IFT		4.5	10	mA	
Forward voltage New INPUT Trigger input current Input reverse current	$l_F = 10 \text{ mA}$ $V_T = 6 \text{ V}$ $V_R = 5 \text{ V}$	I _{FT}	-	4.5	10 10	mA μA	
Forward voltage New INPUT Trigger input current	l _F = 10 mA	IFT		4.5	10	mA	
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Current						
OUTPUT						
Peak on-state voltage	I _{TM} = 1 A	VTM	-	-	1.7	V
Peak off-state current	V _{DBM} = 600 V	IDRM	-	-	100	μΑ
Holding current	R _L = 100 Ω	I _H	-	-	25	mA
Critical rate of rise of off-state voltage	V _{IN} = 400 V _{RMS} (Fig. 3)	dV/dt _{or}	-	600	-	V/µs
Critical rate of rise of commutating voltage	V _{IN} = 240 V _{RMS} , I _T = 1 A _{RMS} (Fig. 3)	dV/dt _{crq}	-	0.7	-	V/µs
New						·
OUTPUT						
Peak on-state voltage	I _{TM} = 1 A	VTM	-	-	1.7	V
Peak off-state current	V _{DRM} = 600 V	IDRM	-	-	100	μΑ
Holding current	$R_L = 100 \Omega$	I _H	-	-	25	mA
Critical rate of rise of off-state voltage	V _{IN} = 400 V _{RMS} (Fig. 3)	dV/dt _{cr}	-	600	-	V/µs
Critical rate of rise of commutating voltage	$V_{IN}=240\;V_{HMS},I_T=1\;A_{HMS}\;(Fig.\;3)$	dV/dt _{orq}	-	0.7	-	V/µs

