



Product Change Notification



Product Group: Vishay Siliconix/ September 26, 2014/PCN-SIL-0792014 Rev 0

Manufacturing Capacity Expansion High Voltage MOSFET Back-grind and Back-metallization

DESCRIPTION OF CHANGE: Vishay Siliconix announces the qualification and release to manufacturing of back-grind and back-metal processes on select commercial High Voltage 8" MOSFET wafers at our factory Vishay Simconix located in Shanghai, China.

Simconix is one of Vishay's back-end manufacturing locations used to produce the MOSFET product line. The backend assembly location controls the flow of material in its manufacturing line, and performing back-grind and back-metal processes at the assembly location improves flexibility and efficiency.

CLASSIFICATION OF CHANGE: Manufacturing capacity expansion

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: No effect on quality, reliability, and/or datasheet performance

PRODUCT CATEGORY: Commercial High Voltage MOSFETs

PART NUMBERS/SERIES/FAMILIES AFFECTED:

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Phase-in for products with Simconix back-grind/back-metal processing will begin in December of 2014.

SAMPLE AVAILABILITY: Please contact your regional Vishay Sales office for sample availability.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before December 29, 2014 or as specified by contract.

ISSUED BY: Don Larson, Vishay Siliconix, Manager Technical Marketing
E-mail address: don.larson@Vishay.com

For further information, please contact your regional Vishay office.

The Americas

Vishay Americas
2201 Laurelwood Road
Santa Clara, Ca 95054
T: 408-988-8000
F: 408-567-8742

Europe

Vishay Electronic GmbH
Dr.-Felix-Zandman-Platz 1
D-95100
Selb, Germany
T: 49-9287-71 0
F: 49-9287-70435

Asia

Vishay Intertechnology Asia Pte. Ltd
25 Tampiness Street 92
#02-00 Keppel Building
Singapore 528877
T: 65-6788-6668
: 65-6788-0988

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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

Procedure #



Product Change Notification



Product Group: Vishay Siliconix/ September 26, 2014/PCN-SIL-0792014 Rev 0

PART LIST				
SIHA12N60E-E3	SIHB33N60ET5-GE3	SIHF12N60E-GE3	SIHG25N50E-GE3	SIHP24N65E-GE3
SIHA15N60E-E3	SIHB6N65E-GE3	SIHF12N65E-GE3	SIHG30N60E-E3	SIHP25N50E-GE3
SIHA22N60E-E3	SIHC22N60EDFFR	SIHF15N60E-E3	SIHG30N60E-GE3	SIHP30N60E-E3
SIHB12N60E-GE3	SIHC22N60EDWF	SIHF15N60E-GE3	SIHG33N60E-E3	SIHP30N60E-GE3
SIHB12N65E-GE3	SIHC22N60EKGD	SIHF15N65E-GE3	SIHG33N60E-GE3	SIHP33N60E-E3
SIHB15N60E-GE3	SIHC22N60SDFFR	SIHF22N60E-E3	SIHG47N60E-E3	SIHP33N60E-GE3
SIHB15N65E-GE3	SIHC30N60EDWF	SIHF22N60E-GE3	SIHG47N60E-GE3	SIHP6N65E-GE3
SIHB22N60E-E3	SIHC33N60EDWF	SIHF22N60S-E3	SIHG47N65E-GE3	SIHP7N60E-E3
SIHB22N60E-GE3	SIHC47N60EDFFR	SIHF22N65E-GE3	SIHG73N60E-E3	SIHP7N60E-GE3
SIHB22N60S-E3	SIHC47N60EDWF	SIHF23N60E-GE3	SIHG73N60E-GE3	SIHU6N62E-GE3
SIHB22N60S-GE3	SIHC47N60EKGD	SIHF30N60E-E3	SIHP12N60E-E3	SIHU6N65E-GE3
SIHB22N65E-GE3	SIHC73N60EDFFR	SIHF30N60E-GE3	SIHP12N60E-GE3	SIHU7N60E-E3
SIHB23N60E-GE3	SIHC73N60EDWF	SIHF6N65E-GE3	SIHP12N65E-GE3	SIHU7N60E-GE3
SIHB24N65E-E3	SIHC73N60EKGD	SIHF7N60E-E3	SIHP15N60E-E3	SIHW22N65E-GE3
SIHB24N65E-GE3	SIHD6N62E-GE3	SIHF7N60E-GE3	SIHP15N60E-GE3	SIHW23N60E-GE3
SIHB24N65ET1-GE3	SIHD6N65E-GE3	SIHG22N60E-E3	SIHP15N65E-GE3	SIHW30N60E-GE3
SIHB24N65ET5-GE3	SIHD7N60E-E3	SIHG22N60E-GE3	SIHP22N60E-E3	SIHW33N60E-GE3
SIHB30N60E-E3	SIHD7N60E-GE3	SIHG22N60S-E3	SIHP22N60E-GE3	SIHW47N60E-GE3
SIHB30N60E-GE3	SIHD7N60ET1-GE3	SIHG22N65E-GE3	SIHP22N60S-E3	SIHW47N65E-GE3
SIHB33N60E-E3	SIHD7N60ET4-GE3	SIHG23N60E-GE3	SIHP22N65E-GE3	SIHW73N60E-GE3
SIHB33N60E-GE3	SIHD7N60ET5-GE3	SIHG24N65E-E3	SIHP23N60E-GE3	V961-0010-GE3
SIHB33N60ET1-GE3	SIHF12N60E-E3	SIHG24N65E-GE3	SIHP24N65E-E3	V961-0013-GE3

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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

Procedure #



Product Change Notification



Product Group: Vishay Siliconix/ September 26, 2014/PCN-SIL-0792014 Rev 0

Qualification Results for Vishay Simconix Back-grind and Back-metal Manufacturing

Qualification test	Conditions	# of Lots, # of samples per lot	Time Scale Hours/Cycles	Results: samples tested/# of failures	Comments
Solder Reflow Preconditioning	168 hr 85/85, 3 cyc @ 260C max				Prior to Test 3 & 5
1. HTGB	Ta = 150°C Vgs = 100% rating of Vgs	3 Lot, 80 samples per lot	168 hours 500 hours 1000 hours	240/0	
2. HTRB	Ta = 150°C Vds = 80% rating of Vds	3 Lot, 80 samples per lot	168 hours 500 hours 1000 hours	240/0	
3. Temperature Cycling	-65°C to +150°C	3 Lot, 80 samples per lot	250 Cycles 500 Cycles 1000 Cycles	240/0	
4. Pressure Pot	+121°C, 15 PSIG	3 Lot, 80 samples per lot	96 Hours	240/0	
5. HAST	+130°C, 85%RH Vgs = 100% rating	1Lot, 82 samples per lot	100 Hours	82/0	
6. Solder Dunk		1Lot, 50 samples	N/A	50/0	Visual Inspection

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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

Procedure #