



# 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  
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**For further information, please contact your regional Vishay office.**

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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

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## 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

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