

Product Change Notification



Product Group: Vishay Siliconix/ SIL-0112018/ May 25, 2018

Additional Commercial Power MOSFET Wafer Fabrication Capacity

DESCRIPTION OF CHANGE: To meet increasing demand for High Voltage Power MOSFET products, Vishay Siliconix has completed the qualification for the expansion of commercial High Voltage MOSFET capacity with foundry partner Founder Microelectronics International Co. Ltd. (FMIC) in Shenzhen, China. FMIC wafer fab contains a 96,000 square-meter clean-room facility which was opened in 2003, and employs highly-skilled wafer production personnel who have been qualified to follow the same quality systems and integration engineering currently supporting Vishay products. FMIC is certified to ISO9001, ISO14001 and TS16949 Quality Management System Certifications.

CLASSIFICATION OF CHANGE: Additional wafer fabrication capacity

REASON FOR CHANGE: Increased High Voltage MOSFET wafer fabrication capacity.

EXPECTED INFLUENCE ON QUALITY/RELIABILTY/PERFORMANCE: No effect on quality, reliability or

performance.

PRODUCT CATAGORY: Commercial High Voltage MOSFETs

PART NUMBERS/SERIES/FAMILIES AFFECTED: See page 2 of this PCN

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments with products containing FMIC die will begin in August 2018 for those products having completed transfer qualification.

SAMPLE AVAILABILITY: Please contact your regional Vishay Sales office for sample availability. When requesting samples please be sure to reference this PCN number.

PRODUCT IDENTIFICATION: Commercial High Voltage MOSFET products containing FMIC die will have "N" in the 4th character location (e.g. Y83**N**).

QUALIFICATION DATA: Reliability test data will be available for specific part numbers upon completion of die geometry qualification. Test criteria and results for the platform qualification are listed on page 3 of this PCN.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before August 25, 2018 or as specified by contract.

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For further information, please contact your regional Vishay office.

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Vishay Intertechnology, Inc.



Product Change Notification



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PCN SIL-0112018 Parts List

IRF840LCPBF IRFP450PBF V961-0007-E3				
IRF820STRRPBFIRF840PBFIRFP460LCPBFIRF830ALPBFIRF840PBFIRFP460LCPBFIRF830APBFIRF840SPBFIRFP460PBFIRF830ASPBFIRF840SPBFIRFP460PBFIRF830ASTRLPBFIRF840STRLPBFIRFP460PBFIRF830PBFIRF840STRLPBFIRFPS37N50APBFIRF830PBFIRF840STRRPBFIRFR210PBFIRF830SPBFIRF840STRRPBFIRFR420PBFIRF830STRLPBFIRFB11N50APBFIRFR420TRPBFIRF830STRLPBFIRFB11N50APBFIRFR420TRPBFIRF830STRLPBFIRFC11N50ABIRFRC20TRPBFIRF840ALPBFIRFC37N50ABIRFRC20TRPBFIRF840ALPBFIRFC430ABIRFS11N50APBFIRF840APBFIRFC450BIRFS11N50ATRLPIRF840APBFIRFC460ABIRFS11N50ATRLPIRF840ASPBFIRFC840ABIRFS11N50ATRRPIRF840ASPBFIRFI820GPBFIRFS11N50ATRRPIRF840ASTRLPBFIRFI820GPBFIRFS11N50ATRRPIRF840ASTRLPBFIRFI840GLCPBFIRFU210PBFIRF840ASTRLPBFIRFI840GLCPBFIRFU210PBFIRF840ASTRRPBFIRFI87N50APBFSIHF830S-GE3IRF840ASTRRPBFIRFIB7N50APBFSIHF830S-GE3IRF840ACTRRPBFIRFIB7N50APBFSIHF830S-GE3IRF840LCLPBFIRFP450LCPBFSIHF830S-GE3IRF840LCLPBFIRFP450LCPBFSIHFS11N50ATRL-GE3IRF840LCLPBFIRFP450LCPBFSIHFS11N50ATRL-GE3	IRF820PBF	IRF840LCSPBF	IRFP460APBF	
IRF830ALPBF IRF840PBF IRFP460LCPBF IRF830APBF IRF840SPBF IRFP460PBF IRF830ASPBF IRF840STRLPBF IRFP460PBF IRF830ASTRLPBF IRF840STRLPBF IRFP460PBF IRF830PBF IRF840STRLPBF IRFP337N50APBF IRF830PBF IRF840STRRPBF IRFR210PBF IRF830SPBF IRF840STRRPBF IRFR420PBF IRF830SPBF IRFB11N50APBF IRFR420TRLPBF IRF830STRLPBF IRFB11N50APBF IRFR420TRLPBF IRF830STRLPBF IRFC11N50AB IRFRC20TRLPBF IRF840ALPBF IRFC37N50AB IRFRC20TRLPBF IRF840ALPBF IRFC450AB IRFS11N50APBF IRF840APBF IRFC450B IRFS11N50ATRLP IRF840APBF IRFC460AB IRFS11N50ATRLP IRF840APBF IRFC840AB IRFS11N50ATRRP IRF840ASPBF IRFI820GPBF IRFS11N50ATRRP IRF840ASPBF IRFI820GPBF IRFS11N50ATRRP IRF840ASTRLPBF IRFI840GLCPBF IRFU210PBF IRF840ASTRLPBF IRFI840GLCPBF IRFU420PBF IRF840ASTRLPBF IRFI840APBF SIHF830S-GE3 IRF840LCLPBF IRFP450APBF SIHF830S-GE3 IRF840LCLPBF IRFP450LCPBF SIHFS11N50ATRL-GE3 IRF840LCLPBF IRFP450LCPBF SIHFS11N50ATRL-GE3 IRF840LCLPBF IRFP450LCPBF SIHFS11N50ATRL-GE3	IRF820STRLPBF	IRF840PBF	IRFP460APBF	
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IRF840LCLPBFIRFP450APBFSIHF830S-GE3IRF840LCLPBFIRFP450LCPBFSIHFS11N50ATRL-GE3IRF840LCPBFIRFP450PBFV961-0007-E3	IRF840ASTRRPBF	IRFIB7N50APBF	SIHF820STRL-GE3	
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	IRF840LCLPBF	IRFP450LCPBF	SIHFS11N50ATRL-GE3	
IDERADI CDRE IDEDASODRE \/061 0007 E2	IRF840LCPBF	IRFP450PBF	V961-0007-E3	
IVI 040FCL DL IVLL470LDL A 201-0001-E2	IRF840LCPBF	IRFP450PBF	V961-0007-E3	

Vishay Intertechnology, Inc.



Product Change Notification



Product Group: Vishay Siliconix/ SIL-0112018/ May 25, 2018

Qualification for Wafer Fabrication Technology Transfer

All Wafer Fabrication Technology transfers receive a full qualification based on JEDEC criteria using 3 lots. After a Wafer Fabrication Platform Technology is qualified all subsequent devices released related to this platform technology will have been qualified by *Extension* – 1 lot tested to HTRB, HTGB, and ESD.

Qualification test	Conditions	# of Lots, # of samples per lot	Time Scale Hours/Cycles	Results: samples tested/# of failures	Comments
1a. Solder Reflow Preconditioning	168 hr 85/85 3 cyc @ 250C max				This test shall apply to test 4 to 6
2. HTRB	Ta = 150°C Vds = 80% rating of Vds	3 Lots, 82 samples per lot	1000 Hours	246/0	
3. HTGB	Ta = 150°C Vgs = 100% rating of Vgs	3 Lots, 82 samples per lot	1000 Hours	246/0	
Temperature Cycling	-65°C to +150°C air to air	3 Lots, 82 samples per lot	1000 Cycles	246/0	
5. Pressure Pot	+121°C, 15 PSIG	3 Lots, 82 samples per lot	96 Hours	246/0	
6. HAST	+130°C, 85%RH Vgs = 100% rating of Vgs	3 Lots, 82 samples per lot	100 Hours	246/0	
8. ESD	HBM CDM	1 Lot, 10 samples 1 Lot, 10 samples	0	10/0 10/0	