



Product Change Notification



Product Group: Vishay Siliconix/December 11, 2015/ PCN-SIL-0362015

Additional Commercial Power MOSFET Wafer Fabrication Capacity

DESCRIPTION OF CHANGE: To meet increasing demand for Vishay's Power MOSFET products, we have completed qualification on select commercial Low Voltage MOSFET products at our foundry partner Tower Semiconductor for wafer fabrication.

Tower Semiconductor has been a wafer foundry partner of Vishay Siliconix since 1995. Founded in 1993, Tower Semiconductor is a worldwide supplier of wafer manufacturing services, and has achieved ISO-9001, ISO41001 and ISO/TS16949 certifications.

CLASSIFICATION of CHANGE: Additional wafer fabrication capacity

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: There will be no effect on quality or reliability.

PRODUCT CATEGORY: Commercial Low Voltage Power MOSFETs

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

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments with products containing Tower Semiconductor die will begin in Quarter 1 of 2016 for those products having completed qualification for transfer.

SAMPLE AVAILABILITY: Please contact your regional Vishay Sales office for sample availability of products which have completed qualification for wafer fabrication transfer to Tower Semiconductor.

QUALIFICATION DATA: Reliability test results will be available upon the completed qualification of those parts scheduled for transfer.

PRODUCT IDENTIFICATION: Products containing Tower Semiconductor Die will be identified by a K in the 4th character position of the part marking datecode.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before March 11, 2016 or as specified by contract.

ISSUED BY: Dave MacDonald, Vishay Siliconix, Senior Manager, Technical Marketing.
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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

Procedure #



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Part Number List



SI4497DY-T1-GE3	SI7629DN-T1-GE3
SI5411EDU-T1-GE3	SI7655ADN-T1-GE3
SI5415AEDU-T1-GE3	SI7655DN-T1-GE3
SI5415EDU-T1-GE3	SI7997DP-T1-GE3
SI7101DN-T1-GE3	SIA437DJ-T1-GE3
SI7137DP-T1-GE3	SIA439EDJ-T1-GE3
SI7141DP-T1-GE3	SIA453EDJ-T1-GE3
SI7145DP-T1-GE3	SIA467EDJ-T1-GE3
SI7149ADP-T1-GE3	SIR401DP-T1-GE3
SI7157DP-T1-GE3	SIS415DNT-T1-GE3
SI7615ADN-T1-GE3	SIS435DNT-T1-GE3
SI7615BDNT-T1-GE3	SIS439ADNT-T1-GE3
SI7615DN-T1-GE3	SIS443DN-T1-GE3
SI7623DN-T1-GE3	SISS23DN-T1-GE3
SI7625DN-T1-GE3	SISS27DN-T1-GE3

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Qualification for Wafer Fabrication Technology Transfer

All Wafer Fabrication Technology transfers receive a full qualification based on MIL-STD-883 and MIL-STD-750 criteria using 3 lots. After a Wafer Fabrication 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 Table

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	
4. Temperature Cycling	-65°C to +150°C air to air	3 Lots, 55 samples per lot	1000 Cycles	246/0	
5. Pressure Pot	+121°C, 15 PSIG	3 Lots, 55 samples per lot	96 Hours	246/0	
6. HAST	+130°C, 85%RH Vgs = 100% rating of Vgs	3 Lots, 55 samples per lot	100 Hours	246/0	

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