



Product Change Notification



Product Group: Vishay Siliconix/ SIL-0132017/ October 31, 2017

Additional Commercial Power MOSFET Wafer Fabrication Capacity

DESCRIPTION OF CHANGE: To meet increasing demand for Low Voltage Power MOSFET products, Vishay Siliconix has completed qualification for the expansion of commercial Low Voltage MOSFET 8-inch wafer capacity to foundry partner Tower-Jazz located in San Antonio, Texas. Tower-Jazz is a wholly-owned subsidiary of Tower Semiconductor, Ltd. The 80,000 square-foot clean-room facility was opened by Maxim Integrated in 2008, and will retain highly-skilled production personnel, quality systems and integration engineering currently supporting Maxim and Vishay. The Tower Texas facility supports advanced analog platforms for die geometries with feature sizes down to 130nm.

Tower Semiconductor has been a wafer foundry partner of Vishay Siliconix since 2005, servicing Vishay's high-volume production with its 6-inch and 8-inch facilities. Founded in 1993, Tower Semiconductor is a worldwide supplier for foundry services of wafer manufacturing. Tower Semiconductor is head-quartered in Migdal Haemek, Israel, and is certified to ISO9001, ISO14001 and TS16949. <http://www.towersemi.com>.

CLASSIFICATION OF CHANGE: Wafer Fabrication Location

REASON FOR CHANGE: Increased Low Voltage MOSFET manufacturing capacity.

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

PRODUCT CATEGORY: Commercial Low Voltage MOSFETs

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

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments with products containing Tower Texas die will begin in January 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 Low Voltage MOSFET products containing Tower die will have "K" in the 4th character location (e.g. W81K).

QUALIFICATION DATA: Qualification data will be available upon completion of transfer qualification testing. Test criteria are listed on page 3 of this PCN.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before January 30, 2018 or as specified by contract.

ISSUED BY: Dave MacDonald, Vishay Siliconix, Senior Manager Product Marketing
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For further information, please contact your regional Vishay office.

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

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PCN SIL-0132017 Parts List

SI1902CDL-T1-GE3	SI7386DP-T1-E3
SI2304DDS-T1-GE3	SI7386DP-T1-GE3
SI2312CDS-T1-GE3	SI7806ADN-T1-E3
SI2318CDS-T1-GE3	SI7806ADN-T1-GE3
SI3438DV-T1-E3	SI7858BDP-T1-GE3
SI3438DV-T1-GE3	SI9926CDY-T1-E3
SI3464DV-T1-GE3	SI9926CDY-T1-GE3
SI3585CDV-T1-GE3	SIA430DJT-T1-GE3
SI4288DY-T1-GE3	SIA430DJT-T4-GE3
SI4386DY-T1-E3	SIA436DJ-T1-GE3
SI4386DY-T1-GE3	SIA436DJ-T4-GE3
SI4599DY-T1-GE3	SIA440DJ-T1-GE3
SI4816BDY-T1-E3	SIA906EDJ-T1-GE3
SI4816BDY-T1-GE3	SIA906EDJ-T4-GE3
SI4838BDY-T1-GE3	SIR404DP-T1-GE3
SI4874BDY-T1-E3	SIR410DP-T1-GE3
SI4874BDY-T1-GE3	SIR422DP-T1-GE3
SI4894BDY-T1-E3	SIS410DN-T1-GE3
SI4894BDY-T1-GE3	SIS434DN-T1-GE3
SI4932DY-T1-GE3	SIZ346DT-T1-GE3
SI5418DU-T1-GE3	SIZ918DT-T1-GE3
SI5936DU-T1-GE3	SIZ918DT-T1-GE3
SI7116DN-T1-E3	SI7108DN-T1-E3
SI7116DN-T1-GE3	SI7108DN-T1-GE3
SI7230DN-T1-E3	SI7272DP-T1-GE3
SI7230DN-T1-GE3	

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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	
4. 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 0	10/0 10/0	

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