



Product Change Notification



Product Group: Vishay Siliconix/ January 21, 2015/PCN-SIL-0012015Rev0

Vishay Siliconix Announces Additional Conversion to Copper Bondwire for Commercial Power MOSFETs

DESCRIPTION OF CHANGE: As part of our continuous improvement program, Vishay Siliconix announces the qualification for conversion to Copper bond-wire on Low Voltage MOSFET products in PPAKSC70 Dual package.

CLASSIFICATION OF CHANGE: Material set conversion

REASON FOR CHANGE: On-going Copper bond-wire conversion program.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: Enhancement to long-term product reliability. No changes will be made to electrical performance or datasheet parameters.

PRODUCT Category: Power MOSFETs

PART NUMBERS/SERIES/FAMILIES AFFECTED: Page 2 of this PCN lists part numbers affected by the conversion to Copper bondwire.

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments will begin in April 2015.

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

PRODUCT IDENTIFICATION: There will be no change to part numbering. Products converted to Copper wire will have a datecode W53xxx or later.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before April 21, 2015 as specified by contract.

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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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PCN SIL-0012015 Parts List

SIA517DJ-T1-GE3	SIA913ADJ-T1-GE3
SIA517DJ-T4-GE3	SIA914ADJ-T1-GE3
SIA519EDJ-T1-GE3	SIA915DJ-T1-GE3
SIA527DJ-T1-GE3	SIA915DJ-T4-GE3
SIA533EDJ-T1-GE3	SIA920DJ-T1-GE3
SIA537EDJ-T1-GE3	SIA921EDJ-T1-GE3
SIA778DJ-T1-GE3	SIA921EDJ-T4-GE3
SIA811ADJ-T1-GE3	SIA922EDJ-T1-GE3
SIA817EDJ-T1-GE3	SIA923AEDJ-T1-GE3
SIA906EDJ-T1-GE3	SIA923EDJ-T1-GE3
SIA906EDJ-T4-GE3	SIA923EDJ-T4-GE3
SIA910EDJ-T1-GE3	SIA929DJ-T1-GE3
SIA911ADJ-T1-GE3	SIA931DJ-T1-GE3
SIA911ADJ-T5-GE3	SIA936EDJ-T1-GE3
SIA911DJ-T4-GE3	SIA975DJ-T1-GE3
SIA911DJ-T5-E3	

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TABLE 1
PPAKSC70 Copper Bondwire Qualification Test Results

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	All	0 Hours		This test shall apply to test 4.) to 6.) below
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	
7. Bond Integrity	150C Bake	3 Lot3, 40 samples per lots	500 Hours	120/0	

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