



Product Change Notification



Product Group: Vishay Siliconix/ October 10, 2016/PCN-SIL-0362016

Copper Wire Bonding and Additional Back End Capacity for Vishay Siliconix for MLP3.5 x 4.5 packages

DESCRIPTION OF CHANGE: Vishay Siliconix has qualified copper wire bonding for 3.5 x 4.5 MLP package parts. Vishay Siliconix also expanded the backend capacity with Subcontractor Amkor in Philippines for the assembly and Siliconix facility, IMI, for the test and Tape and reel, in addition to the already qualified Vishay Taiwan facility.

There is no change to the product form, fit, function and reliability with the above.

CLASSIFICATION OF CHANGE: Material Set Conversion, Capacity Expansion

REASON FOR CHANGE: Copper bond-wire conversion program

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

PRODUCT CATEGORY: ICs

PART NUMBERS AFFECTED: SIC530CD-T1-GE3, SIC531CD-T1-GE3, SIC531ACD-T1-GE3, SIC532CD-T1-GE3.

VISHAY BRAND(s): Vishay-Siliconix

TIME SCHEDULE: Shipment of products will begin January 11, 2017

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

QUALIFICATION DATA: Included in this PCN

This PCN is for notification purposes only. Your response is not required. If you have any questions, please contact your local Vishay Sales Office.

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Procedure #



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SIC530 Copper Bondwire Qualification Test Results

TABLE 1 - DETAILED RELIABILITY TEST RESULTS

| <u>EVAL</u> | <u>STRESS</u> | <u>STEP</u> | <u>TEST CONDITION</u> | <u>HR-CYC</u> | <u>S</u> | <u>S</u> | <u>FAIL</u> | <u>DONE</u> | <u>TEST TYPE</u> | <u>FAIL CODE</u> |
|-------------|---------------|-------------|-----------------------|---------------|----------|----------|-------------|-------------|------------------|------------------|
| ***** | ***** | *** | ***** | ***** | *** | *** | *** | *** | *** | *** |
| 1680421 | PRECON | 0 | PRODUCT PRECO | 0 | 164 | 0 | X | ET | | |
| | | 1 | PRODUCT PRECO | 168 | 164 | 0 | X | ET | | |
| | TEMP CYCLE | 0 | -55C to +150C | 0 | 82 | 0 | X | ET | | |
| | | 1 | -55C to +150C | 250 | 82 | 0 | X | ET | | |
| | | 2 | -55C to +150C | 500 | 82 | 0 | X | ET | | |
| | | 3 | -55C to +150C | 1000 | 82 | 0 | X | ET | | |
| | HAST | 0 | 130C, 85%RH | 0 | 82 | 0 | X | ET | | |
| | | 1 | 130C, 85%RH | 100 | 82 | 0 | X | ET | | |
| | CSAM | 1 | LEVEL1, CSAM | NA | 11 | 0 | X | ET | | |
| | HTOL | 0 | Tj=150C | 0 | 82 | 0 | X | ET | | |
| | | 1 | Tj=150C | 168 | 82 | 0 | X | ET | | |
| | DPA | 0 | | NA | 40 | 0 | X | ET | | |
| | VALIDATION | 0 | POST PRECON | NA | 3000 | 0 | X | ET | | |
| | | 1 | 3X REFLOW | NA | 3000 | 0 | X | ET | | |
| | | 2 | -55C to +150C | 250 | 3000 | 0 | X | ET | | |

PART NUMBER: SIC530

GEOMETRY: ISL95808/NSYW25/NSSY25

LOT #: EBR 1A

PURPOSE: SIC530 [NSYW25 + NSSY25 + ISL95808] USING 1.2MIL APCC (AU-PD COATED COPPER) WIRE (NON-BSOB ON LEADPOST) BONDS IN POWERPAK MLP4.5X3.5 22L PINS PACKAGE, ASSEMBLED AT AMKOR - PHILIPPINES

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