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Product Change Notification



Product Group: DD/Fri Dec 22, 2023/PCN-DD-039-2023-REV-0

Change of silicon wafer and package material of Small Signal & ESD Diodes in SOT-23 and SOD-123 packages

For further information, please contact your regional Vishay office.

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Description of Change: The Silicon Wafer Diameter of certain part numbers will change from 4 Inch (100mm) to 6 Inch (150mm) and the frontend manufacturing process will be adapted to 6 Inch lines which includes changes in chip design, diffusion and doping technology. With this PCN the affected partnumbers will also be converted to AuPdCu / PdCu bonding wires (instead of currently used Au wires) with wafer front metal thickness being increased accordingly. The Alloy 42 leadframe will be plated with thicker copper layer over whole leadframe instead of current thinner copper layer only on die attach pad. The Epoxy Molding Compound is being changed and POD (in line with JEDEC Standards) is being adopted, the die size, bodymarking and datasheet specification of certain partnumbers are changing with this PCN. Automotive part numbers are converting to revision partnumbers in accordance with Vishay Diodes standard nomenclature (see Annex 1 for LTB/LTS of current PN version). The ordering code of industrial part numbers will not change.

Reason for Change: Production harmonization and process consolidation

Expected Influence on Quality/Reliability/Performance: No change in quality and reliability performance

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay Semiconductors

Sample Availability: Available upon request

Product Identification: N/A

Qualification Data: Available upon request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Thu Feb 22, 2024 or as specified by contract.

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ANNEX 1

For LTB and LTS of the automotive current material version, the time schedule as below:

Last Time Buy date: June 24, 2024

Last Time Shipment date: December 24, 2024

Current Material	New Material
BAV19W-HE3-08	BAV19W-HE3_A-08
BAV19W-HE3-18	BAV19W-HE3_A-18
BAS19-HE3-08	BAS19-HE3_A-08
BAS19-HE3-18	BAS19-HE3_A-18
BAV20W-HE3-08	BAV20W-HE3_A-08
BAV20W-HE3-18	BAV20W-HE3_A-18
BAS20-HE3-08	BAS20-HE3_A-08
BAS20-HE3-18	BAS20-HE3_A-18
BAV21W-HE3-08	BAV21W-HE3_A-08
BAV21W-HE3-18	BAV21W-HE3_A-18
BAS21-HE3-08	BAS21-HE3_A-08
BAS21-HE3-18	BAS21-HE3_A-18
BAV23C-HE3-08	BAV23C-HE3_A-08
BAV23C-HE3-18	BAV23C-HE3_A-18
GSD2004W-HE3-08	GSD2004W-HE3_A-08
GSD2004W-HE3-18	GSD2004W-HE3_A-18
GSD2004A-HE3-08	GSD2004A-HE3_A-08
GSD2004A-HE3-18	GSD2004A-HE3_A-18
GSD2004C-HE3-08	GSD2004C-HE3_A-08
GSD2004C-HE3-18	GSD2004C-HE3_A-18
GSD2004S-HE3-08	GSD2004S-HE3_A-08
GSD2004S-HE3-18	GSD2004S-HE3_A-18
BAL99-HE3-08	BAL99-HE3_A-08
BAL99-HE3-18	BAL99-HE3_A-18
BAS16-HE3-08	BAS16-HE3_A-08
BAS16-HE3-18	BAS16-HE3_A-18
BAV70-HE3-08	BAV70-HE3_A-08
BAV70-HE3-18	BAV70-HE3_A-18
BAV99-HE3-08	BAV99-HE3_A-08
BAV99-HE3-18	BAV99-HE3_A-18
BAW56-HE3-08	BAW56-HE3_A-08
BAW56-HE3-18	BAW56-HE3_A-18
IMBD4148-HE3-08	IMBD4148-HE3_A-08
IMBD4148-HE3-18	IMBD4148-HE3_A-18

Current Material	New Material
IMBD4448-HE3-08	IMBD4448-HE3_A-08
IMBD4448-HE3-18	IMBD4448-HE3_A-18
MMBD6050-HE3-08	MMBD6050-HE3_A-08
MMBD6050-HE3-18	MMBD6050-HE3_A-18
MMBD914-HE3-08	MMBD914-HE3_A-08
MMBD914-HE3-18	MMBD914-HE3_A-18
1N4148W-HE3-08	1N4148W-HE3_A-08
1N4148W-HE3-18	1N4148W-HE3_A-18
1N4148W-HG3-08	1N4148W-HG3_A-08
1N4148W-HG3-18	1N4148W-HG3_A-18
1N4151W-HE3-08	1N4151W-HE3_A-08
1N4151W-HE3-18	1N4151W-HE3_A-18
1N4448W-HE3-08	1N4448W-HE3_A-08
1N4448W-HE3-18	1N4448W-HE3_A-18
BAS16D-HE3-08	BAS16D-HE3_A-08
BAS16D-HE3-18	BAS16D-HE3_A-18
MMBD7000-HE3-08	MMBD7000-HE3_A-08
MMBD7000-HE3-18	MMBD7000-HE3_A-18
1N4150W-HE3-08	1N4150W-HE3_A-08
1N4150W-HE3-18	1N4150W-HE3_A-18
BAT42W-HE3-08	BAT42W-HE3_A-08
BAT42W-HE3-18	BAT42W-HE3_A-18
BAT43W-HE3-08	BAT43W-HE3_A-08
BAT43W-HE3-18	BAT43W-HE3_A-18
SD103AW-HE3-08	SD103AW-HE3_A-08
SD103AW-HE3-18	SD103AW-HE3_A-18
SD103BW-HE3-08	SD103BW-HE3_A-08
SD103BW-HE3-18	SD103BW-HE3_A-18
SD103CW-HE3-08	SD103CW-HE3_A-08
SD103CW-HE3-18	SD103CW-HE3_A-18
SD101CW-HE3-08	SD101CW-HE3_A-08
SD101CW-HE3-18	SD101CW-HE3_A-18
SD101AW-HE3-08	SD101AW-HE3_A-08
SD101AW-HE3-18	SD101AW-HE3_A-18

Current Material	New Material
SD101BW-HE3-08	SD101BW-HE3_A-08
SD101BW-HE3-18	SD101BW-HE3_A-18
BAS70-00-HE3-08	BAS70-00-HE3_A-08
BAS70-00-HE3-18	BAS70-00-HE3_A-18
BAS70-04-HE3-08	BAS70-04-HE3_A-08
BAS70-04-HE3-18	BAS70-04-HE3_A-18
BAS70-05-HE3-08	BAS70-05-HE3_A-08
BAS70-05-HE3-18	BAS70-05-HE3_A-18
BAS70-06-HE3-08	BAS70-06-HE3_A-08
BAS70-06-HE3-18	BAS70-06-HE3_A-18
BAS40-00-HE3-08	BAS40-00-HE3_A-08
BAS40-00-HE3-18	BAS40-00-HE3_A-18
BAS40-04-HE3-08	BAS40-04-HE3_A-08
BAS40-04-HE3-18	BAS40-04-HE3_A-18
BAS40-05-HE3-08	BAS40-05-HE3_A-08
BAS40-05-HE3-18	BAS40-05-HE3_A-18
BAS40-06-HE3-08	BAS40-06-HE3_A-08
BAS40-06-HE3-18	BAS40-06-HE3_A-18
BAT54-HE3-08	BAT54-HE3_A-08
BAT54-HE3-18	BAT54-HE3_A-18
BAT54A-HE3-08	BAT54A-HE3_A-08
BAT54A-HE3-18	BAT54A-HE3_A-18
BAT54A-DEL-HE3-18	BAT54A-DELHE3_A-18

Current Material	New Material
BAT54S-HE3-08	BAT54S-HE3_A-08
BAT54S-HE3-18	BAT54S-HE3_A-18
BAT54C-HE3-08	BAT54C-HE3_A-08
BAT54C-HE3-18	BAT54C-HE3_A-18
BAT54W-HE3-08	BAT54W-HE3_A-08
BAT54W-HE3-18	BAT54W-HE3_A-18
BAT54W-HG3-08	BAT54W-HG3_A-08
BAT54W-HG3-18	BAT54W-HG3_A-18
BAT46W-HE3-08	BAT46W-HE3_A-08
BAT46W-HE3-18	BAT46W-HE3_A-18
VCAN26A2-03SHE3-08	VCAN26A2-03SHE3A08
VCAN26A2-03SHE3-18	VCAN26A2-03SHE3A18
VCAN26A203SHE3J-18	VCAN26A203SHE3JA18
VCAN26A203SHE3J-08	VCAN26A203SHE3JA08
VCAN16A2-03SHE3-08	VCAN16A2-03SHE3A08
VCAN16A2-03SHE3-18	VCAN16A2-03SHE3A18
VCAN33A2-03SHE3-08	VCAN33A2-03SHE3A08
VCAN33A2-03SHE3-18	VCAN33A2-03SHE3A18
VCAN36A2-03SHE3-18	VCAN36A2-03SHE3A18
VCAN36A2-03SHE3-08	VCAN36A2-03SHE3A08
MMBZ27VDA-HE3-08	MMBZ27VDA-HE3_A-08
MMBZ27VDA-HE3-18	MMBZ27VDA-HE3_A-18