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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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Product Change Notification



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

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BAV19W-E3-08	BAV19W-E3-18	BAV19W-HE3-08	BAV19W-HE3-18	BAV19W-G3-08
BAV19W-G3-18	BAS19-E3-08	BAS19-E3-18	BAS19-HE3-08	BAS19-HE3-18
BAS19-G3-08	BAS19-G3-18	BAV20W-E3-08	BAV20W-E3-18	BAV20W-HE3-08
BAV20W-HE3-18	BAV20W-G3-08	BAV20W-G3-18	BAS20-E3-08	BAS20-E3-18
BAS20-HE3-08	BAS20-HE3-18	BAS20-G3-08	BAS20-G3-18	BAV21W-E3-08
BAV21W-E3-18	BAV21W-HE3-08	BAV21W-HE3-18	BAV21W-G3-08	BAV21W-G3-18
BAS21-E3-08	BAS21-E3-18	BAS21-HE3-08	BAS21-HE3-18	BAS21-G3-08
BAS21-G3-18	BAV23C-E3-08	BAV23C-E3-18	BAV23C-HE3-08	BAV23C-HE3-18
BAV23C-G3-08	BAV23C-G3-18	GSD2004W-E3-08	GSD2004W-E3-18	GSD2004W-HE3-08
GSD2004W-HE3-18	GSD2004W-G3-08	GSD2004W-G3-18	GSD2004A-E3-08	GSD2004A-E3-18
GSD2004A-HE3-08	GSD2004A-HE3-18	GSD2004A-G3-08	GSD2004A-G3-18	GSD2004C-E3-08
GSD2004C-E3-18	GSD2004C-HE3-08	GSD2004C-HE3-18	GSD2004C-G3-08	GSD2004C-G3-18
GSD2004S-E3-08	GSD2004S-E3-18	GSD2004S-HE3-08	GSD2004S-HE3-18	GSD2004S-G3-08
GSD2004S-G3-18	BAL99-E3-08	BAL99-E3-18	BAL99-HE3-08	BAL99-HE3-18
BAL99-G3-08	BAL99-G3-18	BAS16-E3-08	BAS16-E3-18	BAS16-HE3-08
BAS16-HE3-18	BAS16-G3-08	BAS16-G3-18	BAV70-E3-08	BAV70-E3-18
BAV70-HE3-08	BAV70-HE3-18	BAV70-G3-08	BAV70-G3-18	BAV99-E3-08
BAV99-E3-18	BAV99-HE3-08	BAV99-HE3-18	BAV99-G3-08	BAV99-G3-18
BAW56-E3-08	BAW56-E3-18	BAW56-HE3-08	BAW56-HE3-18	BAW56-G3-08
BAW56-G3-18	IMBD4148-E3-08	IMBD4148-E3-18	IMBD4148-HE3-08	IMBD4148-HE3-18
IMBD4148-G3-08	IMBD4148-G3-18	IMBD4448-E3-08	IMBD4448-E3-18	IMBD4448-HE3-08
IMBD4448-HE3-18	IMBD4448-G3-08	IMBD4448-G3-18	MMBD6050-E3-08	MMBD6050-E3-18
MMBD6050-HE3-08	MMBD6050-HE3-18	MMBD6050-G3-08	MMBD6050-G3-18	MMBD914-E3-08
MMBD914-E3-18	MMBD914-HE3-08	MMBD914-HE3-18	MMBD914-G3-08	MMBD914-G3-18
1N4148W-E3-08	1N4148W-E3-18	1N4148W-E3S-08	1N4148W-HE3-08	1N4148W-HE3-18
1N4148W-G3-08	1N4148W-G3-18	1N4148W-HG3-08	1N4148W-HG3-18	1N4151W-E3-08
1N4151W-E3-18	1N4151W-HE3-08	1N4151W-HE3-18	1N4151W-G3-08	1N4151W-G3-18
1N4448W-E3-08	1N4448W-E3-18	1N4448W-HE3-08	1N4448W-HE3-18	1N4448W-G3-08
1N4448W-G3-18	BAS16D-E3-08	BAS16D-E3-18	BAS16D-HE3-08	BAS16D-HE3-18
BAS16D-G3-08	BAS16D-G3-18	MMBD7000-E3-08	MMBD7000-E3-18	MMBD7000-HE3-08
MMBD7000-HE3-18	MMBD7000-G3-08	MMBD7000-G3-18	1N4150W-E3-08	1N4150W-E3-18
1N4150W-HE3-08	1N4150W-HE3-18	1N4150W-G3-08	1N4150W-G3-18	BAT42W-E3-08
BAT42W-E3-18	BAT42W-HE3-08	BAT42W-HE3-18	BAT42W-G3-08	BAT42W-G3-18
BAT43W-E3-08	BAT43W-E3-18	BAT43W-HE3-08	BAT43W-HE3-18	BAT43W-G3-08
BAT43W-G3-18	SD103AW-E3-08	SD103AW-E3-18	SD103AW-HE3-08	SD103AW-HE3-18
SD103AW-G3-08	SD103AW-G3-18	SD103BW-E3-08	SD103BW-E3-18	SD103BW-HE3-08
SD103BW-HE3-18	SD103BW-G3-08	SD103BW-G3-18	SD103CW-E3-08	SD103CW-E3-18
SD103CW-HE3-08	SD103CW-HE3-18	SD103CW-G3-08	SD103CW-G3-18	SD101CW-E3-08
SD101CW-E3-18	SD101CW-HE3-08	SD101CW-HE3-18	SD101CW-G3-08	SD101CW-G3-18
SD101AW-E3-08	SD101AW-E3-18	SD101AW-HE3-08	SD101AW-HE3-18	SD101AW-G3-08
SD101AW-G3-18	SD101BW-E3-08	SD101BW-E3-18	SD101BW-HE3-08	SD101BW-HE3-18
SD101BW-G3-08	SD101BW-G3-18	BAS70-00-E3-08	BAS70-00-E3-18	BAS70-00-HE3-08
BAS70-00-HE3-18	BAS70-00-G3-08	BAS70-00-G3-18	BAS70-04-E3-08	BAS70-04-E3-18
BAS70-04-HE3-08	BAS70-04-HE3-18	BAS70-04-G3-08	BAS70-04-G3-18	BAS70-05-E3-08
BAS70-05-E3-18	BAS70-05-HE3-08	BAS70-05-HE3-18	BAS70-05-G3-08	BAS70-05-G3-18
BAS70-06-E3-08	BAS70-06-E3-18	BAS70-06-HE3-08	BAS70-06-HE3-18	BAS70-06-G3-08
BAS70-06-G3-18	BAS40-00-E3-08	BAS40-00-E3-18	BAS40-00-HE3-08	BAS40-00-HE3-18
BAS40-00-G3-08	BAS40-00-G3-18	BAS40-04-E3-08	BAS40-04-E3-18	BAS40-04-HE3-08
BAS40-04-HE3-18	BAS40-04-G3-08	BAS40-04-G3-18	BAS40-05-E3-08	BAS40-05-E3-18
BAS40-05-HE3-08	BAS40-05-HE3-18	BAS40-05-G3-08	BAS40-05-G3-18	BAS40-06-E3-08
BAS40-06-E3-18	BAS40-06-HE3-08	BAS40-06-HE3-18	BAS40-06-G3-08	BAS40-06-G3-18
BAT54-E3-08	BAT54-E3-18	BAT54-HE3-08	BAT54-HE3-18	BAT54-G3-08
BAT54-G3-18	BAT54A-E3-08	BAT54A-E3-18	BAT54A-E3R-08	BAT54A-HE3-08
BAT54A-HE3-18	BAT54A-G3-08	BAT54A-G3-18	BAT54A-DEL-HE3-18	BAT54S-E3-08
BAT54S-E3-18	BAT54S-HE3-08	BAT54S-HE3-18	BAT54S-G3-08	BAT54S-G3-18
BAT54C-E3-08	BAT54C-E3-18	BAT54C-HE3-08	BAT54C-HE3-18	BAT54C-G3-08



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BAT54C-G3-18	BAT54W-E3-08	BAT54W-E3-18	BAT54W-HE3-08	BAT54W-HE3-18
BAT54W-G3-08	BAT54W-G3-18	BAT54W-HG3-08	BAT54W-HG3-18	BAT46W-E3-08
BAT46W-E3-18	BAT46W-HE3-08	BAT46W-HE3-18	BAT46W-G3-08	BAT46W-G3-18
VCAN26A2-03S-E3-08	VCAN26A2-03S-E3-18	VCAN26A2-03SHE3-08	VCAN26A2-03SHE3-18	VCAN26A203SHE3J-18
VCAN26A203SHE3J-08	VCAN16A2-03S-E3-08	VCAN16A2-03S-E3-18	VCAN16A2-03SHE3-08	VCAN16A2-03SHE3-18
VCAN33A2-03S-E3-08	VCAN33A2-03S-E3-18	VCAN33A2-03SHE3-08	VCAN33A2-03SHE3-18	VCAN36A2-03SHE3-18
VCAN36A2-03SHE3-08	VCAN36A2-03S-E3-08	VCAN36A2-03S-E3-18	MMBZ27VDA-E3-08	MMBZ27VDA-E3C-08
MMBZ27VDA-E3-18	MMBZ27VDA-HE3-08	MMBZ27VDA-HE3-18	MMBZ27VDA-G3-08	MMBZ27VDA-G3-18