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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.

CONTACT INFORMATION

Americas

Vishay Semiconductors
One Greenwich Place
-
Shelton CT United States 06484
Phone: +1 402 563 6866
Fax: +1 402 563 6296
Diodes-Americas@vishay.com

Europe

Vishay Semiconductors
Theresienstrasse 2
-
Heilbronn Germany 74072
Phone: +49 7131 7498 656 (715)
Fax: +49 7131 67 2938
Diodes-Europe@vishay.com

Asia

Vishay Semiconductors
37A Tampines Street 92 #07-01
-
Singapore 528886
Phone: +65 6788 6668
Fax: +65 6788 988
Diodes-Asia@vishay.com

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

Time Schedule:

Start Shipment Date: Fri Feb 23, 2024

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.

Issued By: Ernst Lueftinger (Small Signals) ernst.lueftinger@vishay.com, Jens Henschel (ESD) jens.henschel@vishay.com



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



Product Change Notification



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

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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

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