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16 *Infineon Technologies Austria AG*

17
18 **UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA**

19 INFINEON TECHNOLOGIES AUSTRIA AG,

Case No. 3:24-cv-01553

20 Plaintiff,

**COMPLAINT FOR PATENT
INFRINGEMENT**

21 v.

DEMAND FOR JURY TRIAL

22
23 INNOSCIENCE (SUZHOU) TECHNOLOGY
COMPANY, LTD., INNOSCIENCE
24 (ZHUHAI) TECHNOLOGY COMPANY,
LTD., and INNOSCIENCE AMERICA, INC.,
25

26 Defendants.
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1 Plaintiff Infineon Technologies Austria AG (“Plaintiff” or “Infineon”) files this action for
2 patent infringement against Defendants Innoscience (Suzhou) Technology Company, Ltd.
3 (“Innoscience Suzhou”), Innoscience (Zhuhai) Technology Company, Ltd. (“Innoscience
4 Zhuhai”) and Innoscience America, Inc. (“Innoscience America”) (collectively, “Innoscience” or
5 the “Defendants”) and allege as follows.

6 **NATURE OF THE ACTION**

7 1. This is a civil action for patent infringement under the laws of the United States, 35
8 U.S.C. § 1, *et seq.*

9 2. Defendants have infringed and continue to infringe one or more claims of U.S.
10 Patent No. 9,899,481 (“the ‘481 patent”) (the “Asserted Patent”) at least by using, selling, offering
11 for sale, and importing into the United States gallium nitride (“GaN”) products that infringe one
12 or more claims of the Asserted Patent.

13 3. Infineon is the legal owner by assignment of the entire right, title, and interest in
14 and to the Asserted Patent, which was duly and legally issued by the United States Patent and
15 Trademark Office (“USPTO”). Infineon seeks monetary damages and injunctive relief to address
16 past and ongoing infringement of its valuable intellectual property.

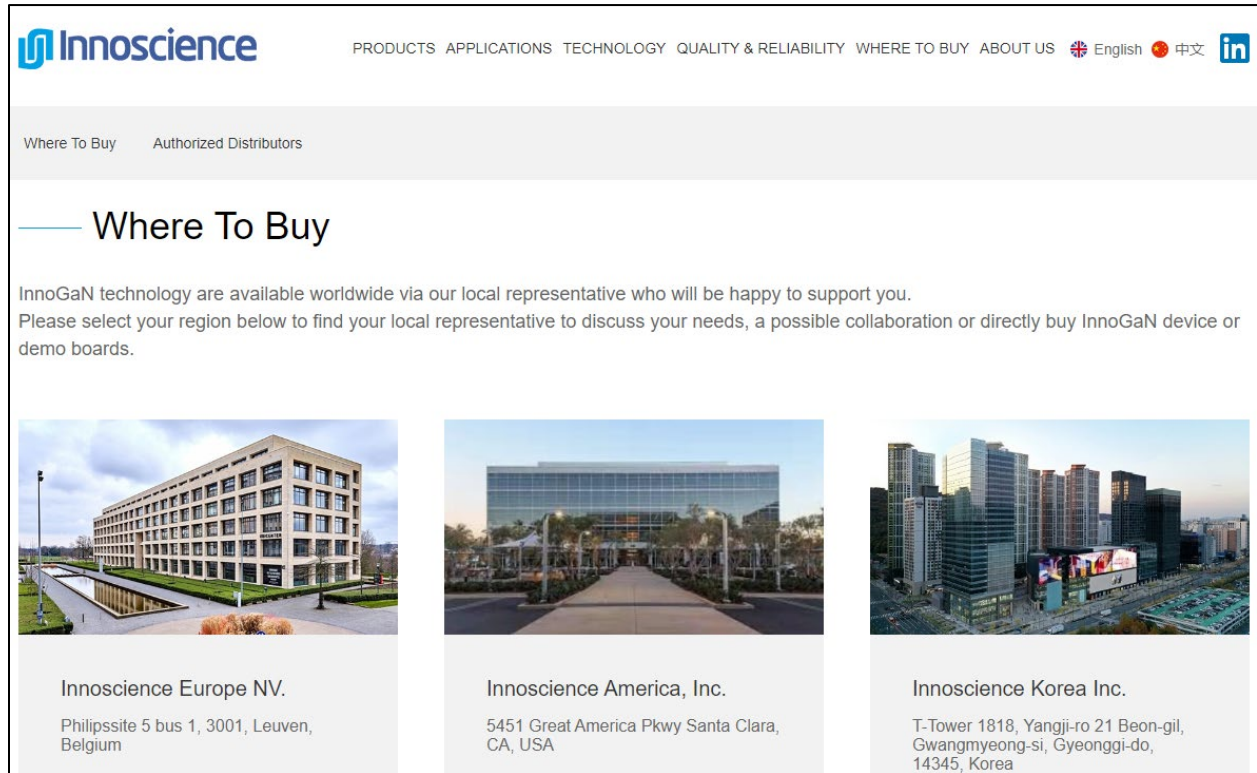
17 **THE PARTIES**

18 4. Plaintiff Infineon Technologies Austria AG is a corporation organized under the
19 laws of Austria having a principal place of business at Siemensstraße 2, A-9500 Villach, Austria.

20 5. On information and belief, Defendant Innoscience (Suzhou) Technology Company,
21 Ltd. is a Chinese corporation that has its principal place of business and headquarters at No. 98,
22 Xinli Road, Lili Town, Wujiang District Suzhou, Jiangsu, 215211 China. On information and
23 belief, Innoscience Suzhou is the parent company to subsidiaries Innoscience Zhuhai and
24 Innoscience America.

25 6. On information and belief, Defendant Innoscience (Zhuhai) Technology Company,
26 Ltd. is a Chinese corporation that has a principal place of business and headquarters at No. 39,
27 Jinyuan 2nd Road, High-Tech Zone, Zhuhai, Guangdong, 519085 China.
28

1 15. The Innoscience website (<https://www.innoscience.com/>) features a “WHERE TO
2 BUY” tab, which allows customers in the United States to “directly buy” Innoscience products
3 from Innoscience America, Inc., located in Santa Clara, California.



17 16. In a 2022 press release, Innoscience said it had “signed a global distribution
18 agreement with Richardson RFPD.” <https://www.innoscience.com/site/details/472>

19 17. The Innoscience website identifies Innoscience’s “Authorized Distributors,” which
20 include “Richardson RFPD.”

21 18. Richardson RFPD’s website lists each of the Accused Products for sale online in
22 the United States. <https://shop.richardsonrfpd.com/>

23 19. On information and belief, Innoscience uses Richardson RFPD as an established
24 distribution channel to market and sell its products to customers throughout the United States,
25 including California.

26 20. On information and belief, Innoscience Suzhou, Innoscience Zhuhai, and
27 Innoscience America are related entities that operate as part of a corporate group or common
28 business enterprise that operates under the Innoscience brand.

FACTUAL BACKGROUND

Infineon’s Patented Technologies

26. Infineon is a leading designer and manufacturer of semiconductors used in a variety of microelectronic applications, including computer systems, telecommunication systems, consumer goods, automotive products, industrial automation and control systems, and chip card applications.

27. Infineon Technologies Austria AG and its parent Infineon Technologies AG have continuously invested in innovation, resulting in a portfolio that includes thousands of unexpired patents in the United States and in other countries across the globe.

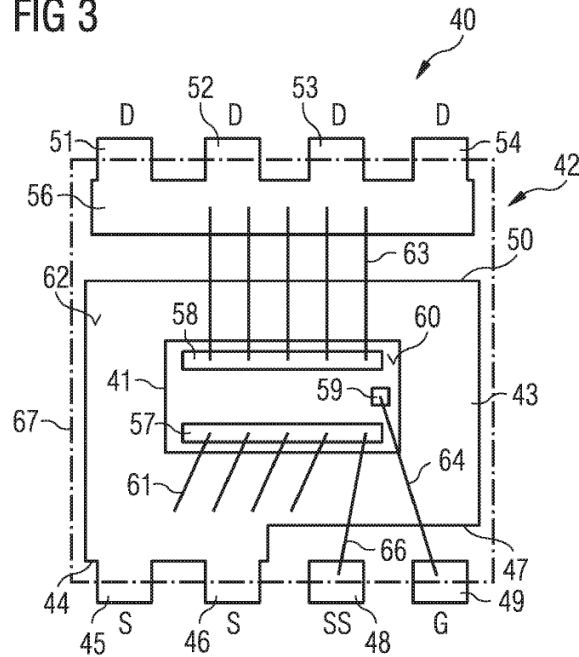
Infineon’s Asserted Patent

28. This complaint focuses on an Infineon patent directed to a lateral transistor device and package with source-sensing functionality.

29. Infineon is the current owner by assignment of the entire right, title, and interest in and to the ’481 patent titled “Electronic component and switch circuit.” The ’481 patent issued on February 20, 2018. A copy of the ’481 patent is attached as Exhibit A.

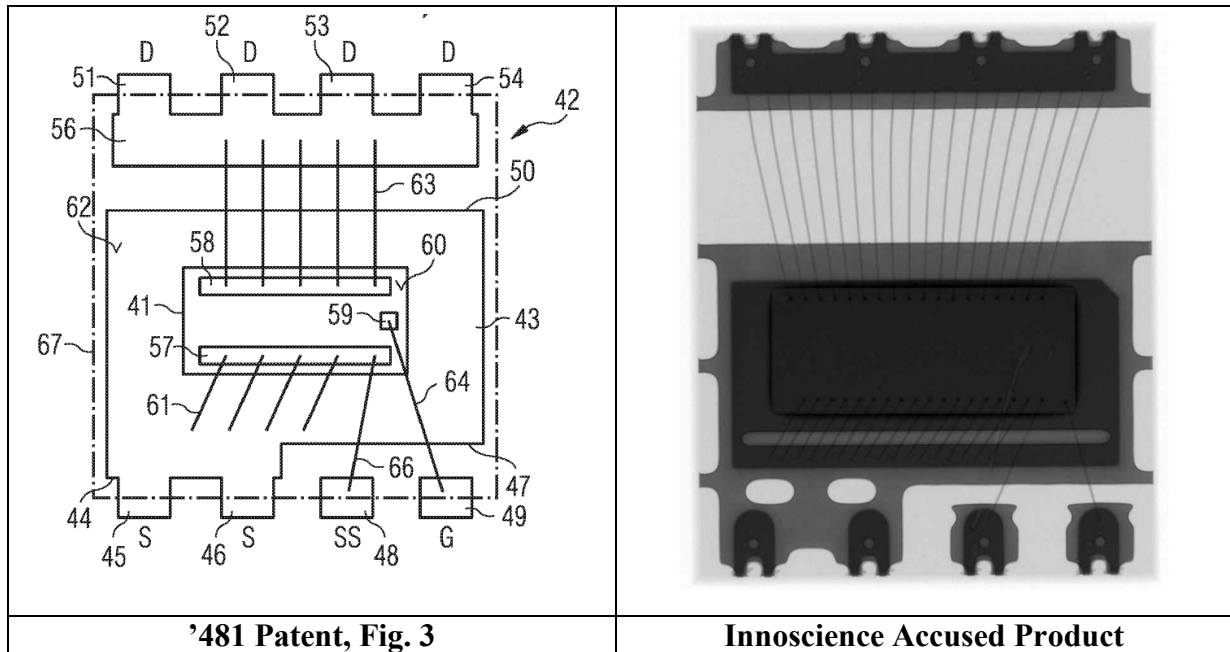
30. The ’481 patent discloses a compound semiconductor transistor device such as a lateral high electron mobility transistor (HEMT) housed within a surface mountable device (SMD) package that can provide a source sense functionality to exclude parasitic source inductance that could result in increased energy loss at high switching speeds, as depicted in Figure 3.

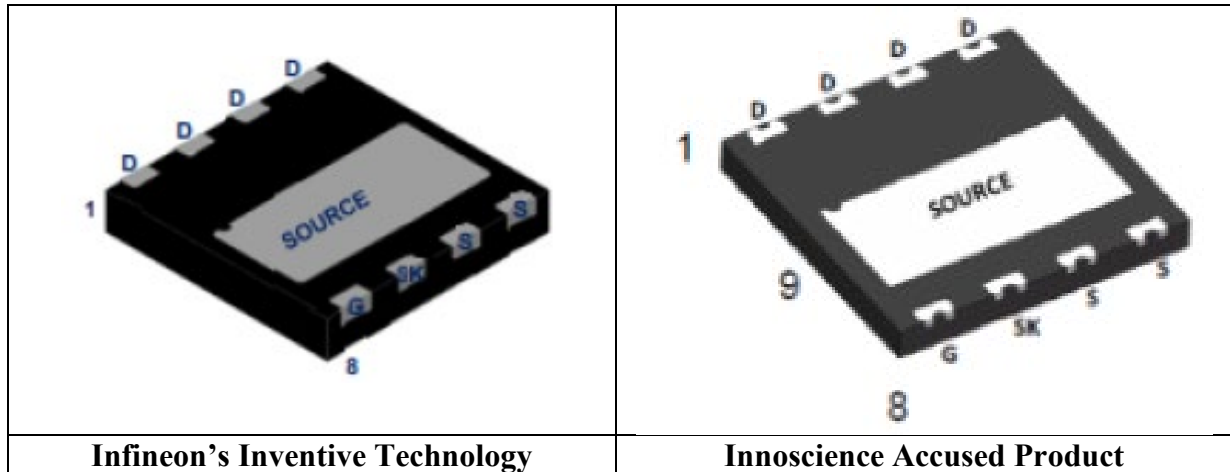
FIG 3



Defendants’ Incorporation of Infineon’s Patented Technologies into Their Devices

31. Innoscience’s Accused Products replicate Infineon’s inventive technology, as illustrated below.





32. For example, the Innoscence Accused Products include a plurality of bond wires (61) that couple a source pad (57) to a die pad (43). The Accused Products also include Kelvin Source (KS), which practices the patented Source-Sensing (48) functionality (SS) that provides improved performance.

33. According to its website, Innoscence established a mass production 8-inch wafer line for GaN-on-Si devices in November 2017. By the end of August 2023, Innoscence had mass-produced 54 different types of high-voltage GaN devices (650V-700V) and 20 types of medium-low voltage GaN devices (30V-150V). Products span three device categories: wafers, discrete devices and integrated solutions. As of September 19, 2023, Innoscence had shipped more than 300 million InnoGaN gallium nitride devices. <https://www.innoscence.com/site/details/493>.

34. On its website, Innoscence touts the numerous applications of the infringing GaN products. <https://www.innoscence.com/site/application>. These applications include:

- Adapters (“The high frequency and high efficiency characteristics of Innoscence’s GaN technology meet these requirements enabling efficient and compact adapters. Several adapters (in-box and out-box) are already successfully using Innoscence’s GaN technology and sold in the consumer market.”); *Id.*
- Wireless charging (“Compared to traditional Silicon technology, Innoscence’s GaN technology has the advantages of smaller parasitic capacitance, faster switching speed and smaller on-resistance per unit area. When applied to wireless charging system, Innoscence’s GaN technology reduces both the switching and

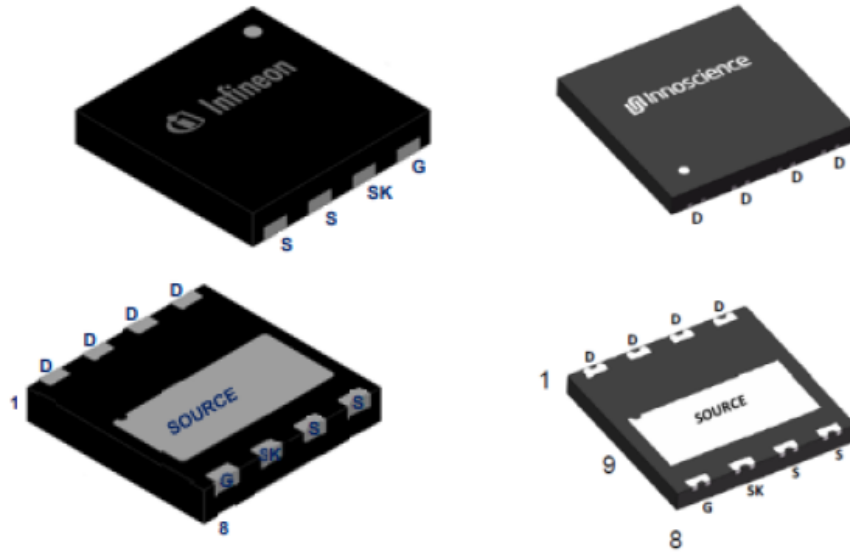
1 conduction loss, thus enabling wireless charging system with higher system
2 efficiency and longer transmission distance.”); *Id.*

- 3 • Class-D audio amplifier (“InnoGaNTM transistors area ideal for class-D amplifier
4 by combining fast switching speed, low switching loss, small parasitic capacitance
5 etc.”); *Id.*
- 6 • Over Voltage Protection (“OVP”) (“The size of each unit inside a mobile phone or
7 laptop is of paramount importance and InnoGaNTM transistors enable the OVP unit
8 to be 50% smaller than the one made with Silicon technology.”); *Id.*
- 9 • Time of Flight (“ToF”) (“Innosience’s GaN Technology with smaller area cost
10 and higher performance is a better choice for ToF system.”); *Id.*
- 11 • Motor driver and control (“InnoGaNTM enables motor driver and inverters to be
12 smaller, lighter, cheaper, more reliable and efficient with respect to what is possible
13 today with Silicon technology.”); *Id.*
- 14 • Telecom infrastructure (“InnoGaNTM enables highly efficient and small volume
15 power supply systems for 5G base station and thus lower their power consumption.
16 This is thanks to the inherent property of InnoGaNTM device, such as small parasitic
17 capacitance, fast switching speed and small static and dynamic losses.”); *Id.*
- 18 • LED lighting (“LED driver based on InnoGaNTM technology can have a 90%
19 reduction of the driver losses when switching at higher frequency (e.g. 400KHz),”
20 “LED drivers powered by InnoGaNTM devices show smaller switching conduction
21 losses, higher efficiency, higher switching frequency and an overall reduction of
22 the driver size that becomes much smaller and thinner than what would be possible
23 with Silicon technology.”); *Id.*
- 24 • Photovoltaic and energy storage system (“Thanks to the inherent property of
25 InnoGaNTM device, such as low static and dynamic losses, small parasitic
26 capacitance, fast switching speed, high frequency capabilities etc. InnoGaNTM can
27 effectively increase the efficiency of (micro-) inverters, auxiliary power supply and
28 on the maximum power point tracker (MPPT).”); *Id.*

- 1 • Data center (“Power conversion systems based on Innoscience’s GaN technology
2 are overall more efficient and thus consume less energy that means less pollution
3 and lower energy bill. They are also more compact and reliable thanks to the high
4 frequency capabilities of InnoGaN™ devices.”); *Id.*
- 5 • On-Board Charger (OBC) for automotive (“Thanks to the inherent property of
6 InnoGaN™ device, such as small parasitic capacitance, fast switching speed, high
7 frequency capabilities and small static and dynamic losses, it is possible to make
8 OBC systems more efficient.”); *Id.*
- 9 • 48V power system (“Thanks to the excellent switching characteristics and high
10 frequency capabilities of InnoGaN™, which is at least a factor 2 higher than
11 Silicon, it is possible to make 48V DC-DC converters smaller and lighter, by
12 shrinking the passive components, as well as to make them more efficient by
13 reducing the loss related to inductors;”) *Id.*
- 14 • Battery Management System (BMS) (“Thanks to the fact that InnoGaN™ devices
15 do not have a body diode, it is easy to replace the two Silicon NMOS, today used
16 in standard BPU, by one InnoGaN™. This saves in costs and makes the system
17 overall simpler and more efficient.”). *Id.*

18 35. In January 2022, Innoscience announced the official launch of its international
19 operations in the United States. Yi Sun, General Manager, Innoscience America, Inc., explained:
20 “This is an exciting time for our customers, who can benefit from Innoscience’s applications
21 understanding and demo boards to develop their unique solutions. This will allow us to better
22 support our customers in the USA.” <https://www.innoscience.com/site/details/375>.

23 36. In a 2023 presentation at an industry session of the Applied Power Electronics
24 Conference (“APEC”) held in Orlando, Florida from March 19 to March 23, 2023, Innoscience
25 highlighted the similarities between its product and Infineon’s inventive technology in its
26 presentation to the industry. In one slide, Innoscience compared Infineon’s IGLD60R190D1
27 product (shown below on left) with Innoscience’s INN650D190A product (shown below on right).
28 Innoscience identified the identical pin layouts for the gate, drain, Kelvin Source, and source.



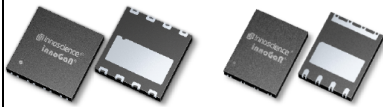
Gate	8
Drain	1,2,3,4
Kelvin Source	7
Source	5,6

Table 2 Pin information

Gate	Drain	Kelvin Source	Source
8	1,2,3,4	7	5,6,9

Exhibit B, p. 19.

37. Innoscience explained to the audience, which included its target customers such as “system engineers/architects and business-oriented people such as purchasing agents” (https://www.aconf.org/conf_146150.html), that Innoscience’s products are “pin-to-pin compatible” with Infineon’s products in the hope of inducing Infineon customers to switch to Innoscience’s Accused Products.



- Standard DFN packages in 8x8 and 5x6mm
- R_{dson} Max: 30mOhm, 80mOhm, 140mOhm, 190mOhm,...2.2 Ohm

Some of Infineon and GaNSystem GaN devices are pin-to-pin compatible with Innoscience’s GaN power devices and with similar specifications (and viceversa)

Exhibit B, p. 19.

38. Just last month, Innoscience again touted the benefits of its infringing products to potential customers at APEC 2024, which was held in Long Beach, California from February 25 to February 29, 2024. <https://www.innoscience.com/site/details/714>.




39. At its booth at APEC 2024, Innoscience advertised the diverse applications and markets that it seeks to exploit with GaN.



40. For example, in a presentation at an industry session of APEC 2024, Innoscience touted that with its 650V InnoGaN, it is possible to make a 2kW power supply unit (“PSU”) meeting the recent stringent 80 Plus titanium efficiency rating. The presentation also featured a 2kW PSU Demo that utilizes several INN650D080BS InnoGaN FETs, which is one of the Accused Products. Exhibit C, 5-6.


1 41. Innoscience also advertised the INN650D080BS and its ability to meet the titanium
2 energy efficiency standards in the flyers it handed out, as depicted below (annotations added).

3 **Innoscience Solution for Datacenter**
4
5 **ADVANTAGES**
6 1. 80+ platinum with 40% higher power density --- PSU

7
8 **REFERENCE DESIGN**
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11 **2kW PSU**
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14 Size: 185mm * 65mm * 36mm
15 Power density: 76W/in³
16 
17 **Efficiency: Meets titanium energy
18 efficiency standards**
19 **InnoGaN: LLC: INN650D080BS ***
20 2pcs
21 **Slow bridge: INN650TA030AH ***
22 2pcs
23 **Fast bridge: INN650TA070AH * 2pcs**
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1 42. Innoscience advertised that the same product provides a “more energy-efficient”
2 solution for energy storage in the solar space, as depicted below (annotations added).

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Innoscience Solution for Solar

ADVANTAGES

1. 15% increase in power generation---Micro inverter
2. Reduce conversion loss by 50%, more energy-efficient---Energy storage
3. Reduce board area by 40%---BMS

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1.2kW Energy storage bidirectional converter



Size: 205mm*85mm*24mm

Efficiency : 91%

Power Density : 47W/in³

InnoGaN: INN650D080BS*4pcs

INN040FQ015A*32pcs

22 43. The 2024 APEC presentation also touted reliability of Innoscience’s GaN power
23 devices at a switching frequency of 100 kHz. Exhibit C, 16-18.

24 44. The infringing products include, but are not limited to, Innoscience products
25 containing a lateral transistor device and having source sensing functionality (collectively
26 “Accused Products”). The Accused Products include, but are not limited to, the following:
27 INN650D080BS, INN650D140A, INN650D190A, INN650D240A, INN650D350A,
28 INN650DA140A, INN650DA190A, INN650DA240A, INN650DA350A, INN650DA500A,

1 INN650DA600A, INN700D140C, INN700D190B, INN700D190C, INN700D240B,
2 INN700D240C, INN700D350B, INN700DA140C, INN700DA190B, INN700DA240B,
3 INN700DA350B, INN700DA480B, INN700DA600B, INN700DC140A, INN700DC140C,
4 INN700DC190C, INN700DC240A, INN700DC240C, INN700DC350A, INN650TA030AH.

5 45. The Accused Products are non-limiting examples that were identified based on
6 publicly available information, and Infineon reserves the right to identify additional infringing
7 activities, products and services, including, for example, on the basis of information obtained
8 during discovery.

9 46. Defendants have made extensive use of Infineon's patented technologies, including
10 the technology described and claimed in the Asserted Patent. Infineon is committed to defending
11 its proprietary and patented technology. Infineon requests that this Court award it damages
12 sufficient to compensate for Defendants' infringement of the Asserted Patent, find this case
13 exceptional and award Infineon its attorneys' fees and costs, and grant an injunction against
14 Defendants to prevent ongoing infringement of the Asserted Patent.

15 47. The allegations provided herein are exemplary and without prejudice to Infineon's
16 infringement contentions to be served pursuant to the Court's scheduling order in this case. In
17 providing these allegations, Infineon does not convey or imply any particular claim constructions
18 or the precise scope of the claims. Infineon's claim construction contentions regarding the
19 meaning and scope of the claim terms will be provided pursuant to the Court's scheduling order.

20 COUNT I

21 **(Infringement of U.S. Patent No. 9,899,481)**

22 48. Infineon incorporates by reference and realleges all the foregoing paragraphs as if
23 fully set forth herein.

24 **Direct Infringement**

25 49. Innoscience America has directly infringed and continues to directly infringe,
26 literally and/or equivalently, one or more claims of the '481 patent, including at least claim 1,
27 including by importing, using, selling, and offering for sale in the United States the Accused
28 Products.

50. On information and belief, Innoscience Suzhou and Innoscience Zhuhai have directly infringed and continue to directly infringe by importing, selling, or offering for sale in the United States the Accused Products.

51. The Accused Products (e.g., INN650DA190A) literally include each element of at least claim 1 of the '481 patent. To the extent that any element is not literally present, such element is present under the doctrine of equivalents.

52. The Accused Products (e.g., INN650DA190A) include an electronic component. For example:


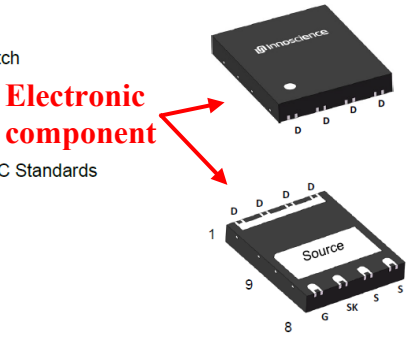
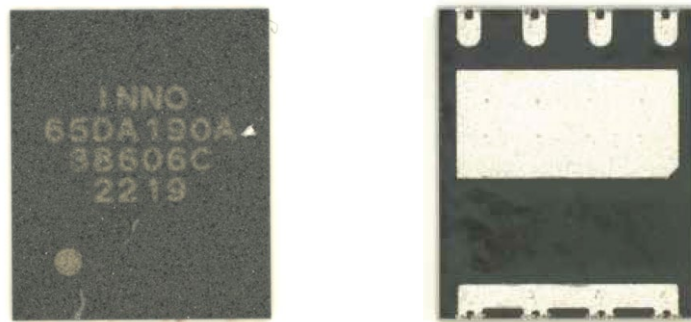
<p>INN650DA190A 650V GaN Enhancement-mode Power Transistor</p> <hr/> <p>INN650DA190A</p> <p>1. General description</p> <p>650V GaN-on-Silicon Enhancement-mode Power Transistor in Dual Flat No-lead package (DFN) with 5 mm × 6 mm size</p> <p>2. Features</p> <ul style="list-style-type: none"> · Enhancement mode transistor-Normally off power switch · Ultra high switching frequency · No reverse-recovery charge · Low gate charge, low output charge · Qualified for industrial applications according to JEDEC Standards · ESD safeguard · RoHS, Pb-free, REACH-compliant <p>3. Applications</p> <ul style="list-style-type: none"> · DCM/BCM PFC 	  <p>Electronic component</p>
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Exhibit D, INN650DA190A Datasheet, at 1 (annotations added)



Pictures of top side (left panel) and bottom side (right panel) of INN650DA190A

53. The Accused Products (e.g., INN650DA190A) include a GaN power transistor, which is a compound semiconductor transistor device. For example:

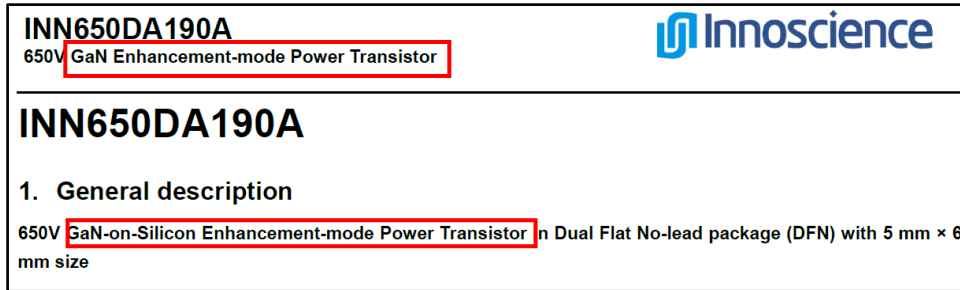


Exhibit D, INN650DA190A Datasheet, at 1 (annotations added)

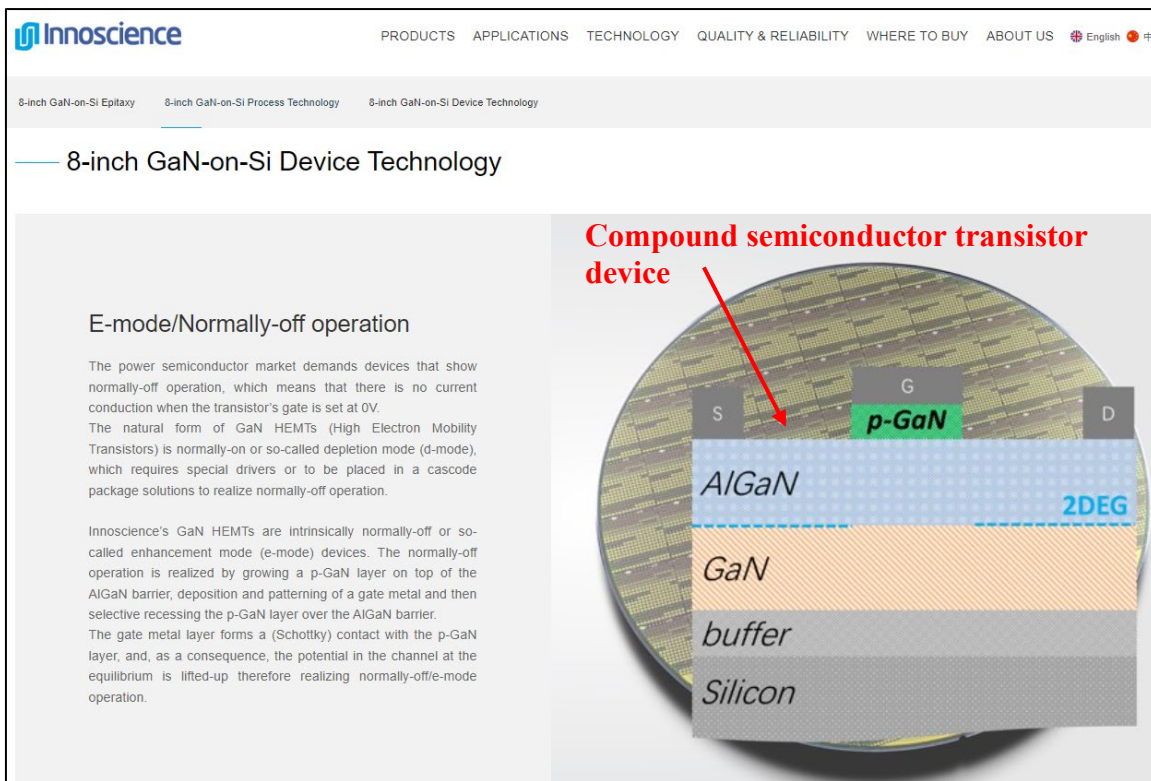
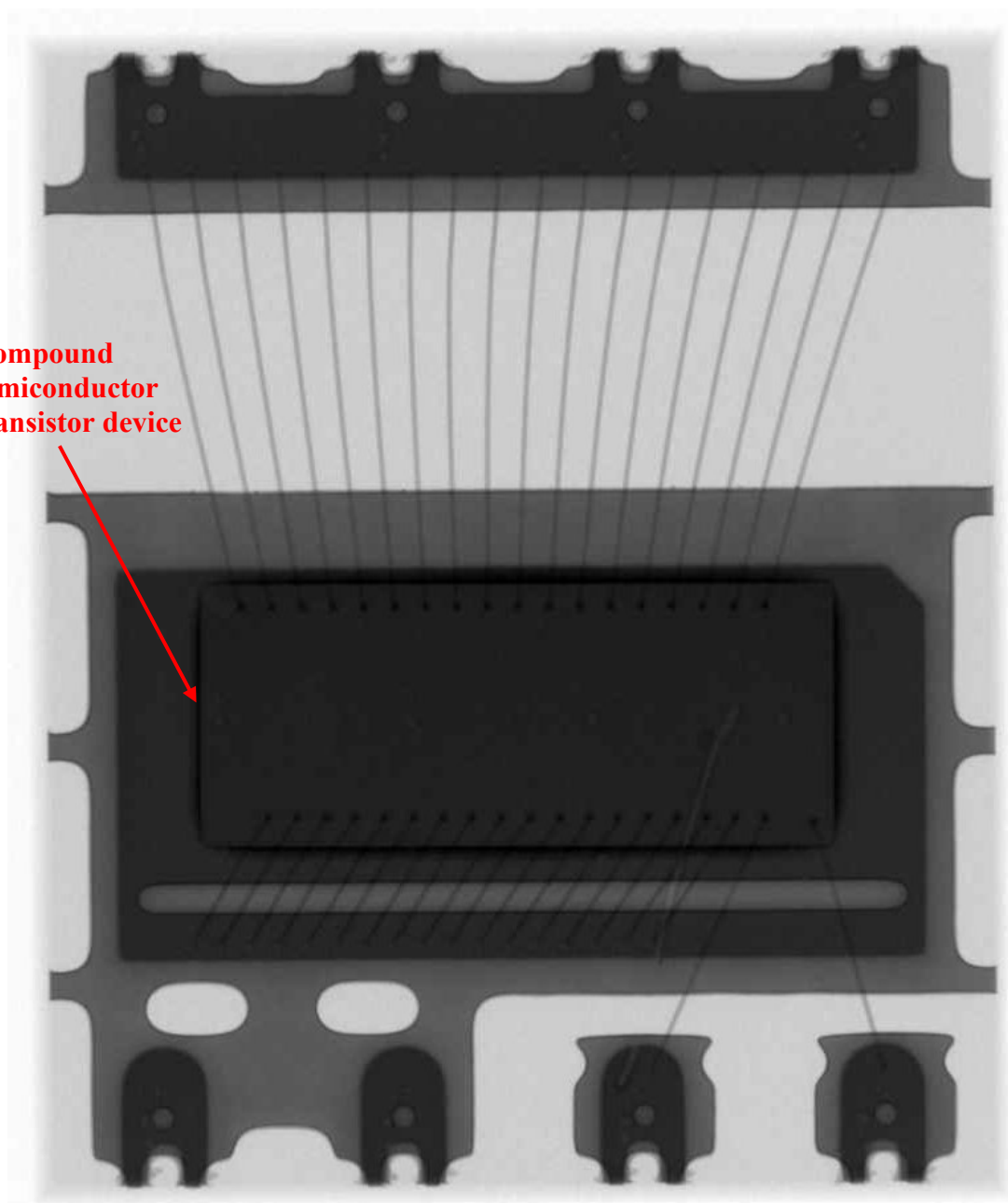


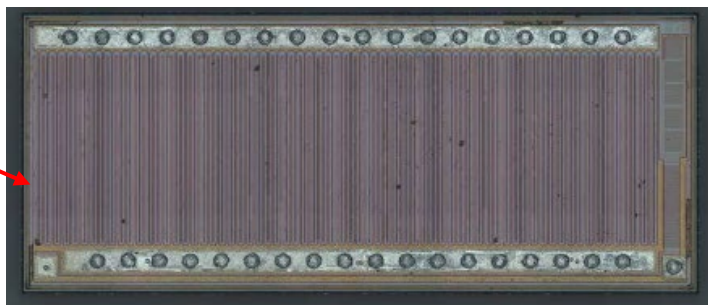
Exhibit E, <https://www.innoscience.com/site/technology>, at 4 (annotations added)



Plan-view X-ray photograph of INN650DA190A (annotations added)

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Compound semiconductor transistor device



Plan-view die photograph of INN650DA190A, without bond wires (annotations added)

54. The compound semiconductor transistor device in the Accused Products (e.g., INN650DA190A) includes a first current electrode, a second current electrode and a control electrode. For example:

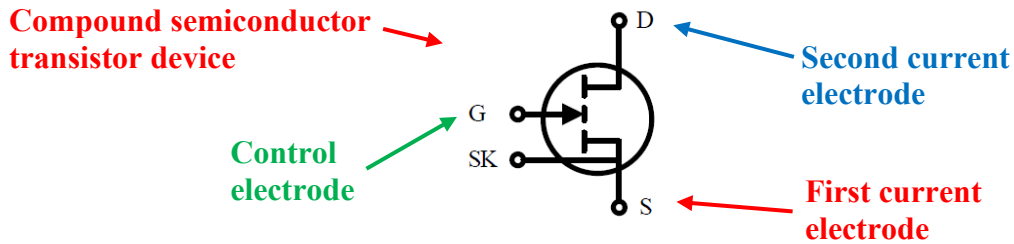
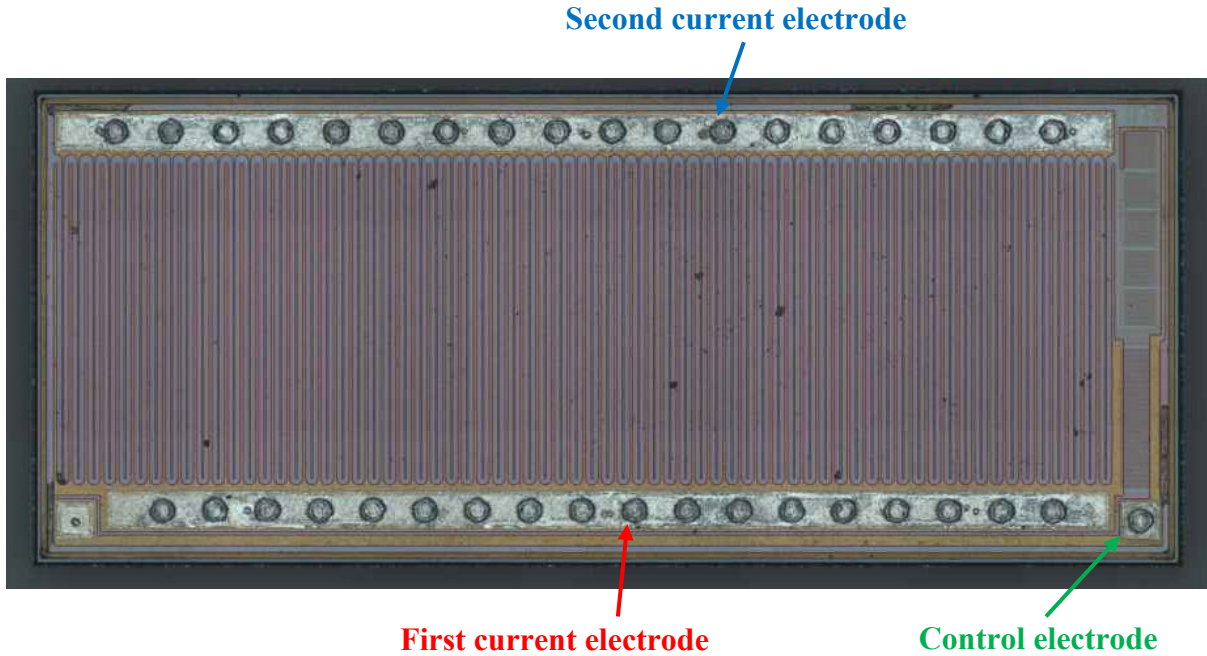
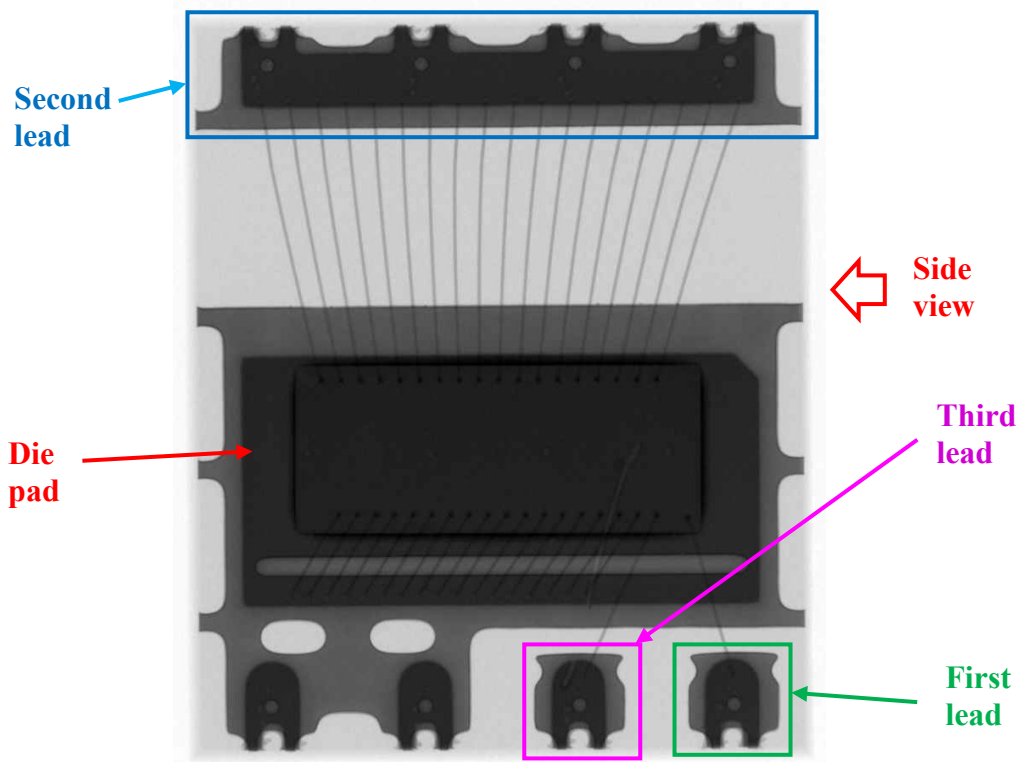


Exhibit D, INN650DA190A Datasheet, at 1 (annotations added)

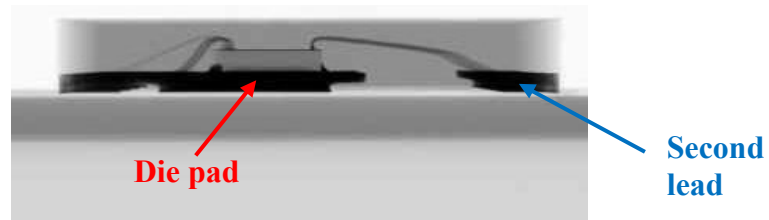


Plan-view die photograph of INN650DA190A, without bond wires (annotations added)

55. The Accused Products (e.g., INN650DA190A) include a die pad, a first lead, a second lead and a third lead. The first lead, the second lead and the third lead are spaced at a distance from the die pad. For example:



Plan-view X-ray photograph of INN650DA190A (annotations added)



Side-view X-ray photograph of INN650DA190A along the direction of the arrow marked "side view" in the plan-view X-ray photograph above (annotations added)

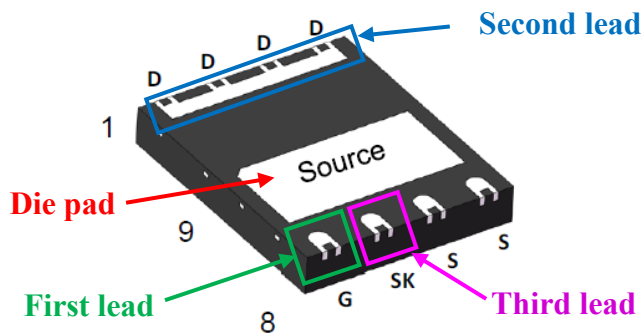
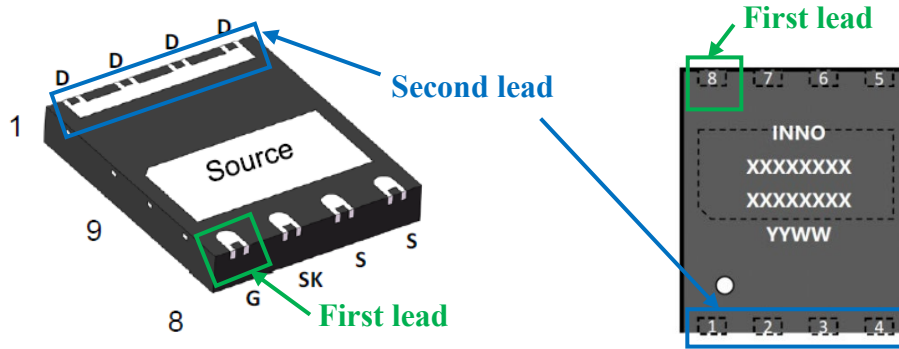


Exhibit D, INN650DA190A Datasheet, at 1 (annotations added)

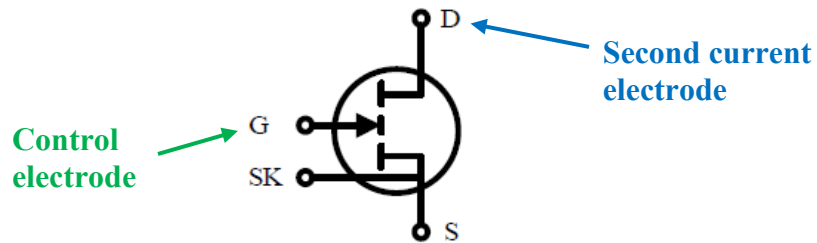
1 56. In the Accused Products (e.g., INN650DA190A), the control electrode is coupled
 2 to the first lead, the first current electrode is coupled to the die pad, the second current electrode is
 3 coupled to the second lead. For example:



10 **5. Pin information**

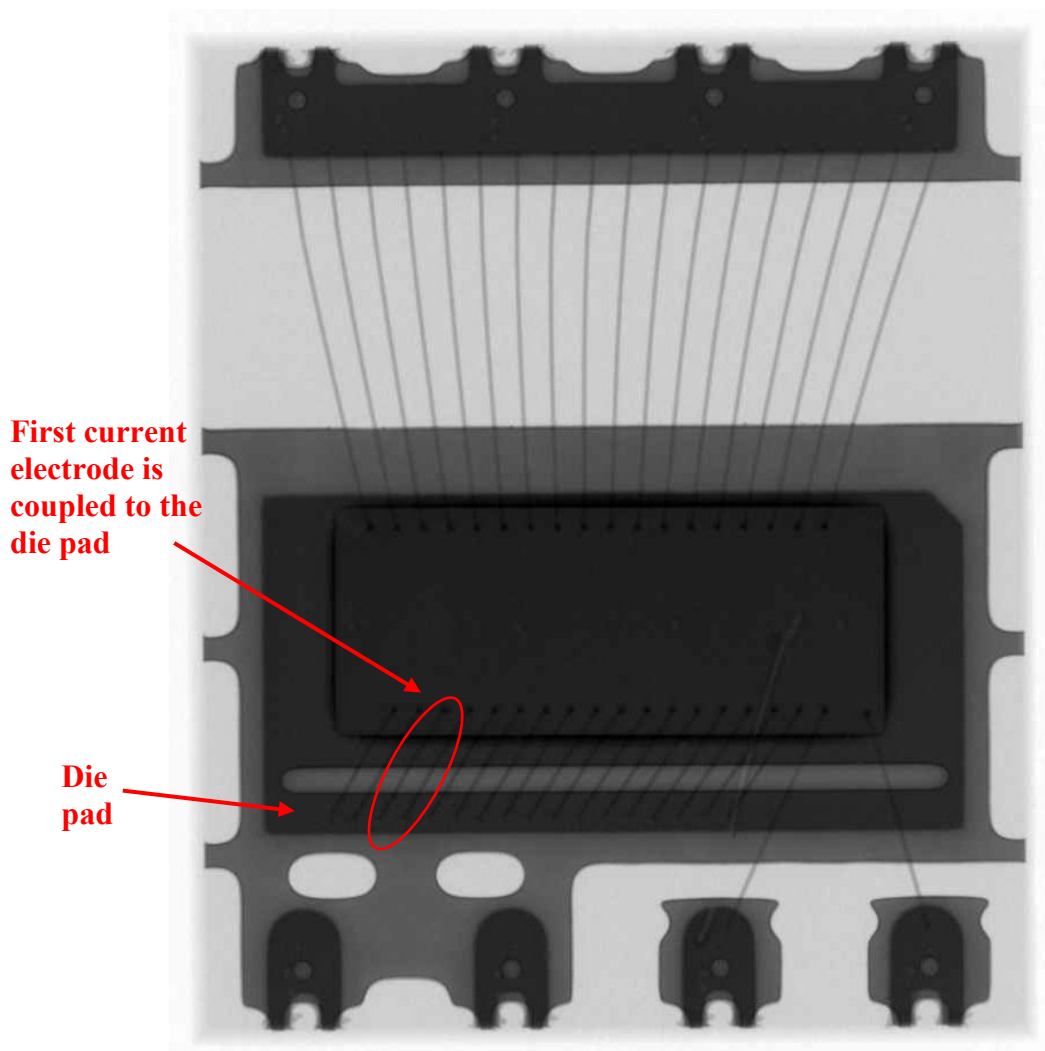
11 **Table 2 Pin information**

12 Gate	Drain	Kelvin Source	Source
8	1,2,3,4	7	5,6,9



18 Exhibit D, INN650DA190A Datasheet, at 1, 13 (annotations added)

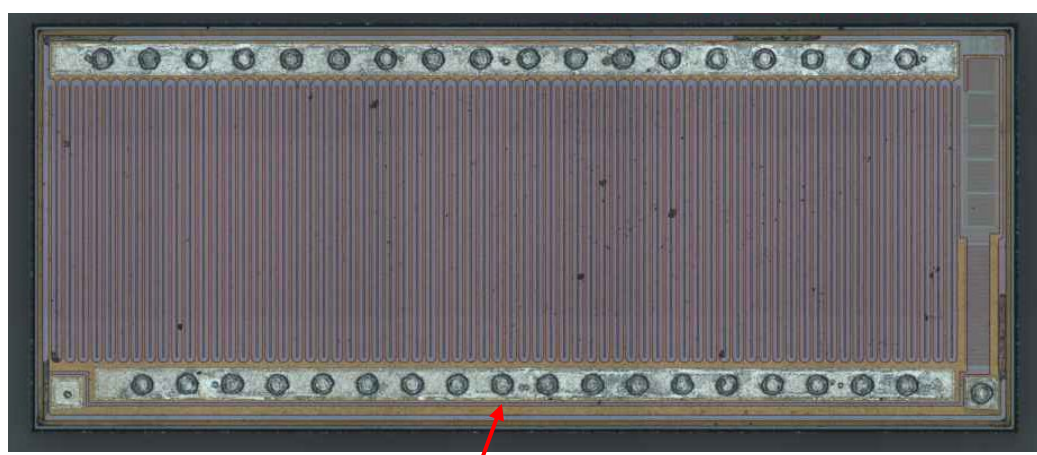
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First current electrode is coupled to the die pad

Die pad

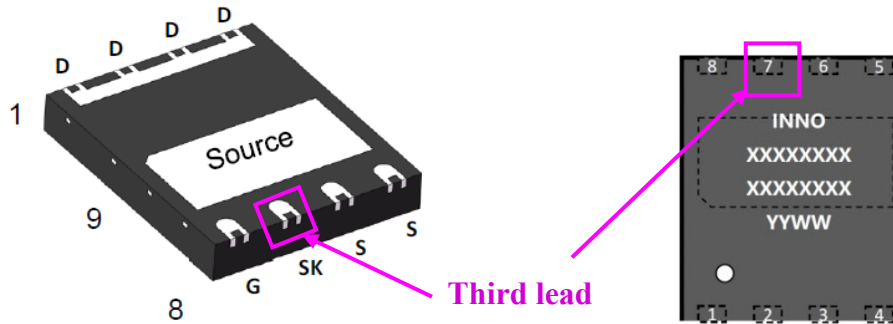
Plan-view X-ray photograph of INN650DA190A (annotations added)



First current electrode

Plan-view die photograph of INN650DA190A, without bond wires (annotations added)

57. In the Accused Products (e.g., INN650DA190A), the third lead is coupled to the compound semiconductor transistor device and provides a source sensing functionality. For example:



5. Pin information

Table 2 Pin information

Gate	Drain	Kelvin Source	Source
8	1,2,3,4	7	5,6,9

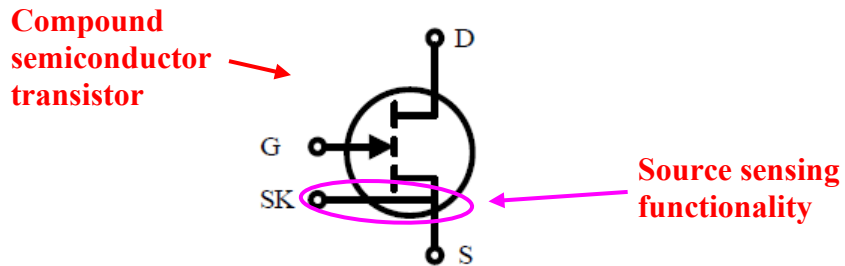


Exhibit D, INN650DA190A Datasheet, at 1, 13 (annotations added)

58. The compound semiconductor transistor device in the Accused Products (e.g., INN650DA190A) is a lateral transistor device. For example:

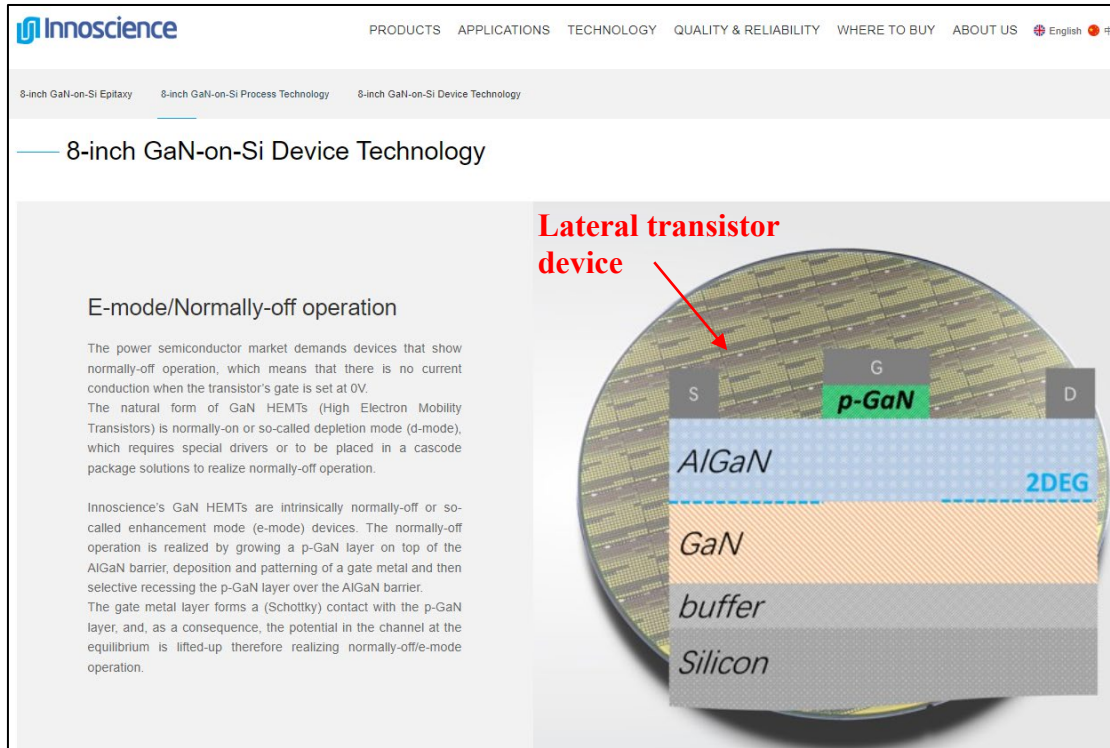
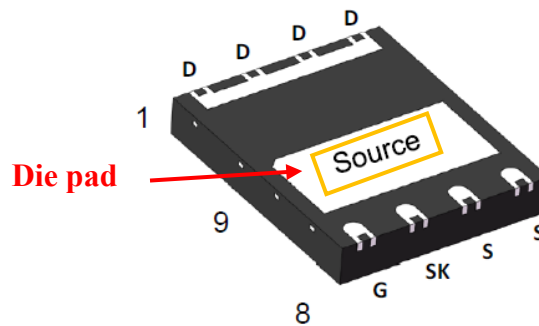


Exhibit E, <https://www.innoscience.com/site/technology>, at 4 (annotations added)

59. In the Accused Products (e.g., INN650DA190A), a source of the compound semiconductor transistor device is coupled to the die pad. For example:



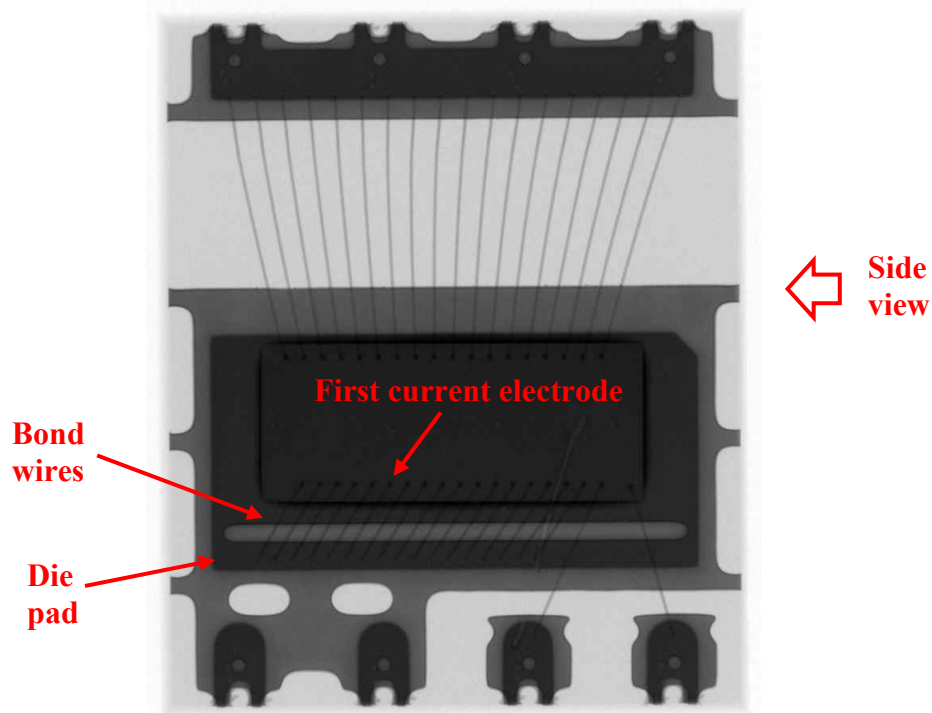
5. Pin information

Table 2 Pin information

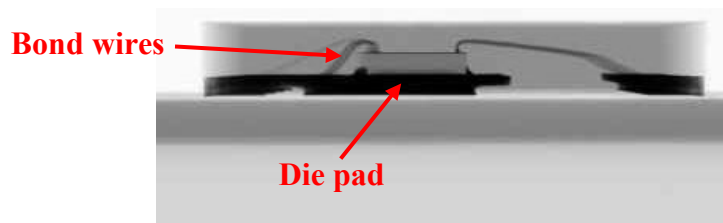
Gate	Drain	Kelvin Source	Source
8	1,2,3,4	7	5,6,9

Exhibit D, INN650DA190A Datasheet, at 1 (annotations added)

1 60. In the Accused Products (e.g., INN650DA190A), the first current electrode is
2 coupled to the die pad by a plurality of bond wires. For example:



15 Plan-view X-ray photograph of INN650DA190A (annotations added)



20 Side-view X-ray photograph of INN650DA190A along the direction of the arrow marked
21 “side view” in the plan-view X-ray photograph above (annotations added)

22 **Induced Infringement**

23 61. Since at least the filing of the Complaint, Defendants have known of the '481
24 patent.

25 62. Since at least the filing of the Complaint, Defendants have known that the Accused
26 Products infringe at least claim 1 of the '481 patent when used by customers or other users, when
27 sold or offered for sale by Innoscience America or by other resellers (e.g., Richardson RFPD), and
28 when imported into the United States.

1 63. Since at least the filing of the Complaint, Innoscience America has had the specific
2 intent to induce and has induced customers or other users to directly infringe at least claim 1 of the
3 '481 patent by distributing the Accused Products through established channels in the United States
4 and advertising the Accused Products in the United States.

5 64. Since at least the filing of the Complaint, Innoscience Suzhou and Innoscience
6 Zhuhai have had the specific intent to induce and have induced customers or other users to directly
7 infringe at least claim 1 of the '481 patent by continuing to make the Accused Products, distribute
8 the Accused Products through established channels into the United States, and enable and
9 encourage resellers (e.g., Richardson RFPD) to sell the Accused Products in the United States,
10 including in this District.

11 65. Defendants provide (or cause Richardson RFPD to provide) with the Accused
12 Products and on Innoscience's website product datasheets, demo boards, product documentation,
13 application notes, and advertising materials that induce customers or other users to infringe at least
14 claim 1 of the '481 patent by encouraging the use of the Accused Products. For example,
15 Innoscience's website touts features of INN650DA190A such as "ultra high switching frequency,"
16 "low gate charge, low output charge," "qualified for industrial applications according to JEDEC
17 Standards" for applications in "DCM/BCM PFC," "AHB/LLC/QR Flyback/ACF DCDC
18 converter," "LED driver," "fast battery charger," "notebook/AIO adaptor," and "Desktop
19 PC/ATX/TV/power tool power supply" (https://www.innoscience.com/site/product_details/408).

20 66. The foregoing description of Defendants' infringement is based on publicly
21 available information. Infineon reserves the right to modify this description, including, for
22 example, on the basis of information about the Accused Products that it obtains during discovery.

23 67. Infineon has been and is being irreparably harmed, and has incurred and will
24 continue to incur damages, as a result of Innoscience's infringement of the '481 patent.

25 68. Innoscience's infringement of the '481 patent has damaged and continues to
26 damage Infineon in an amount yet to be determined, of no less than a reasonable royalty.

REQUEST FOR RELIEF

WHEREFORE, Infineon respectfully requests that this Court enter judgment as follows:

a. Declaring that Defendants have infringed the '481 patent;

b. Granting a permanent injunction, enjoining Defendants and their officers, agents, servants, employees, attorneys, and all other persons acting in concert or participation with them, from further infringement of the '481 patent, including but not limited to enjoining the manufacture, sale, offer for sale, importation or use of the Accused Products and any further development of the Accused Products;

c. Awarding Infineon damages adequate to compensate it for Defendants' infringing activities, including supplemental damages for any post-verdict infringement up until entry of the final judgment with an accounting as needed, together with pre-judgment and post-judgment interest on the damages awarded;

d. Finding that this is an exceptional case and awarding Infineon its reasonable attorneys' fees and costs incurred in this litigation; and

e. Awarding Infineon any such other and further relief as the Court deems just and proper.

DEMAND FOR JURY TRIAL

Infineon hereby demands a trial by jury on all issues so triable.

Dated: March 13, 2024

/s/ Karen I. Boyd

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