



## Material Content Data Sheet



Halogen-Free

|                           |                |                |                   |
|---------------------------|----------------|----------------|-------------------|
| <b>Sales Product Name</b> | BSZ16DN25NS3 G | <b>Issued</b>  | 17. February 2022 |
| <b>MA#</b>                | MA005698336    |                |                   |
| <b>Package</b>            | PG-TSDSON-8-2  | <b>Weight*</b> | 38.76 mg          |

| Construction Element | Material Group     | Substances     | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3             | 1.835       | 4.73                | 4.73    | 47342                    | 47342     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.002       | 0.01                |         | 54                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.008       | 0.02                |         | 216                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.168       | 0.43                |         | 4326                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 6.808       | 17.56               | 18.02   | 175647                   | 180243    |
| wire                 | non noble metal    | copper         | 7440-50-8             | 0.037       | 0.10                | 0.10    | 964                      | 964       |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.034       | 0.09                |         | 868                      |           |
|                      | plastics           | epoxy resin    | -                     | 1.733       | 4.47                |         | 44724                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 15.062      | 38.88               | 43.44   | 388623                   | 434215    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 0.387       | 1.00                | 1.00    | 9989                     | 9989      |
| plating              | noble metal        | silver         | 7440-22-4             | 0.963       | 2.48                | 2.48    | 24836                    | 24836     |
| solder               | non noble metal    | tin            | 7440-31-5             | 0.037       | 0.10                |         | 950                      |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.046       | 0.12                |         | 1187                     |           |
|                      | non noble metal    | lead           | 7439-92-1             | 1.758       | 4.53                | 4.75    | 45349                    | 47486     |
| heat sink clip       | inorganic material | phosphorus     | 7723-14-0             | 0.002       |                     |         | 49                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.008       | 0.02                |         | 195                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.151       | 0.39                |         | 3893                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 6.127       | 15.81               | 16.22   | 158089                   | 162226    |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0             | 0.001       |                     |         | 28                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.004       | 0.01                |         | 111                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.086       | 0.22                |         | 2225                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 3.501       | 9.03                | 9.26    | 90335                    | 92699     |
| *deviation           | < 10%              | Sum in total:  |                       |             |                     | 100.00  |                          | 1000000   |

### Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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