



## Material Content Data Sheet



Halogen-Free

|                           |               |                |              |
|---------------------------|---------------|----------------|--------------|
| <b>Sales Product Name</b> | BSZ050N03LS G | <b>Issued</b>  | 11. May 2021 |
| <b>MA#</b>                | MA001684532   |                |              |
| <b>Package</b>            | PG-TSDSON-8-2 | <b>Weight*</b> | 39.77 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             | 1.213       | 3.05                | 3.05    | 30491                    | 30491     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.002       | 0.01                |         | 53                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.008       | 0.02                |         | 211                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.168       | 0.42                |         | 4216                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 6.808       | 17.12               | 17.57   | 171190                   | 175670    |
| wire                 | non noble metal    | copper         | 7440-50-8             | 0.037       | 0.09                | 0.09    | 930                      | 930       |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.038       | 0.10                |         | 950                      |           |
|                      | plastics           | epoxy resin    | -                     | 1.946       | 4.89                |         | 48935                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 16.909      | 42.53               | 47.52   | 425206                   | 475091    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 0.387       | 0.97                | 0.97    | 9735                     | 9735      |
| plating              | noble metal        | silver         | 7440-22-4             | 0.963       | 2.42                | 2.42    | 24206                    | 24206     |
| solder               | non noble metal    | tin            | 7440-31-5             | 0.028       | 0.07                |         | 708                      |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.035       | 0.09                |         | 886                      |           |
|                      | non noble metal    | lead           | 7439-92-1             | 1.345       | 3.38                | 3.54    | 33828                    | 35422     |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0             | 0.001       |                     |         | 27                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.004       | 0.01                |         | 108                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.086       | 0.22                |         | 2168                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 3.501       | 8.80                | 9.03    | 88042                    | 90345     |
| heat sink CLIP       | inorganic material | phosphorus     | 7723-14-0             | 0.002       |                     |         | 47                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.008       | 0.02                |         | 190                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.151       | 0.38                |         | 3795                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 6.127       | 15.41               | 15.81   | 154078                   | 158110    |
| *deviation           | < 10%              | Sum in total:  |                       |             |                     | 100.00  |                          | 1000000   |

### Important Remarks:

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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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