



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    |                  |                       | BSZ120P03NS3E G |                        | <b>Issued</b>  |                          | 29. August 2013 |  |
|---------------------------|--------------------|------------------|-----------------------|-----------------|------------------------|----------------|--------------------------|-----------------|--|
| <b>MA#</b>                |                    |                  |                       | MA000734162     |                        |                |                          |                 |  |
| <b>Package</b>            |                    |                  |                       | PG-TSDSON-8-2   |                        | <b>Weight*</b> |                          | 38.42 mg        |  |
| Construction Element      | Material Group     | Substances       | CAS#<br>if applicable | Weight<br>[mg]  | Average<br>Mass<br>[%] | Sum<br>[%]     | Average<br>Mass<br>[ppm] | Sum<br>[ppm]    |  |
| chip                      | inorganic material | silicon          | 7440-21-3             | 1.346           | 3.50                   | 3.50           | 35023                    | 35023           |  |
| leadframe                 | inorganic material | phosphorus       | 7723-14-0             | 0.002           | 0.01                   |                | 55                       |                 |  |
|                           | non noble metal    | zinc             | 7440-66-6             | 0.008           | 0.02                   |                | 218                      |                 |  |
|                           | non noble metal    | iron             | 7439-89-6             | 0.168           | 0.44                   |                | 4364                     |                 |  |
| wire                      | non noble metal    | copper           | 7440-50-8             | 6.808           | 17.72                  | 18.19          | 177191                   | 181828          |  |
|                           | non noble metal    | copper           | 7440-50-8             | 0.053           | 0.14                   | 0.14           | 1381                     | 1381            |  |
|                           | encapsulation      | organic material | carbon black          | 1333-86-4       | 0.035                  | 0.09           |                          | 901             |  |
|                           | plastics           | epoxy resin      | -                     | 1.783           | 4.64                   |                | 46412                    |                 |  |
|                           | inorganic material | silicondioxide   | 60676-86-0            | 15.494          | 40.33                  | 45.06          | 403289                   | 450602          |  |
| leadfinish                | non noble metal    | tin              | 7440-31-5             | 0.387           | 1.01                   | 1.01           | 10077                    | 10077           |  |
| plating                   | noble metal        | silver           | 7440-22-4             | 0.963           | 2.51                   | 2.51           | 25054                    | 25054           |  |
| solder                    | non noble metal    | tin              | 7440-31-5             | 0.030           | 0.08                   |                | 777                      |                 |  |
|                           | noble metal        | silver           | 7440-22-4             | 0.037           | 0.10                   |                | 972                      |                 |  |
|                           | non noble metal    | lead             | 7439-92-1             | 1.426           | 3.71                   | 3.89           | 37121                    | 38870           |  |
| heatspreader              | inorganic material | phosphorus       | 7723-14-0             | 0.001           | 0.00                   |                | 28                       |                 |  |
|                           | non noble metal    | zinc             | 7440-66-6             | 0.004           | 0.01                   |                | 112                      |                 |  |
|                           | non noble metal    | iron             | 7439-89-6             | 0.086           | 0.22                   |                | 2244                     |                 |  |
|                           | non noble metal    | copper           | 7440-50-8             | 3.501           | 9.11                   | 9.34           | 91129                    | 93513           |  |
| heat sink CLIP            | inorganic material | phosphorus       | 7723-14-0             | 0.002           | 0.00                   |                | 49                       |                 |  |
|                           | non noble metal    | zinc             | 7440-66-6             | 0.008           | 0.02                   |                | 196                      |                 |  |
|                           | non noble metal    | iron             | 7439-89-6             | 0.151           | 0.39                   |                | 3928                     |                 |  |
|                           | non noble metal    | copper           | 7440-50-8             | 6.127           | 15.95                  | 16.36          | 159479                   | 163652          |  |
| *deviation                | < 10%              |                  |                       | Sum in total:   |                        | 100,00         |                          | 1000000         |  |

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