

Date: 4/26/2021

Material Number: SI8283BD-IS

Pkg Config.: PK1397

Detailed Device Composition

| No. | Homogeneous Material | Material Weight (mg) | Material Content | CAS Number | Material Weight (%) | Material Weight (mg) | ppm of Material | Wt % of Total Unit | ppm of Total Unit |
|-----|----------------------|----------------------|-----------------------------|-------------|---------------------|----------------------|-----------------|--------------------|-------------------|
| 1 | Leadframe | 219.13 | Copper | 7440-50-8 | 96.120 | 210.628 | 961200 | 27.8486 | 278486 |
| | | | Gold | 7440-57-5 | 0.030 | 0.066 | 300 | 0.0087 | 87 |
| | | | Iron | 7439-89-6 | 2.317 | 5.077 | 23170 | 0.6713 | 6713 |
| | | | Nickel | 7440-02-0 | 1.280 | 2.805 | 12800 | 0.3709 | 3709 |
| | | | Palladium | 7440-05-3 | 0.049 | 0.107 | 490 | 0.0142 | 142 |
| | | | Phosphorous | 7723-14-0 | 0.081 | 0.177 | 810 | 0.0235 | 235 |
| | | | Zinc | 7440-66-6 | 0.123 | 0.270 | 1230 | 0.0356 | 356 |
| 2 | Mold Compound | 534.52 | Carbon Black | 1333-86-4 | 0.300 | 1.604 | 3000 | 0.2120 | 2120 |
| | | | Epoxy Resin (Proprietary) | Proprietary | 8.000 | 42.762 | 80000 | 5.6538 | 56538 |
| | | | Phenol Resin (Proprietary) | Proprietary | 5.700 | 30.468 | 57000 | 4.0283 | 40283 |
| | | | Silicon Dioxide | 60676-86-0 | 86.000 | 459.687 | 860000 | 60.7786 | 607786 |
| 3 | Die Attach Epoxy | 0.42 | 2-Ethylhexyl Glycidyl Ether | 2461-15-6 | 7.000 | 0.029 | 70000 | 0.0039 | 39 |
| | | | Bisphenol F | 620-92-8 | 12.000 | 0.050 | 120000 | 0.0067 | 67 |
| | | | Epoxy Acrylate | 15625-89-5 | 15.000 | 0.063 | 150000 | 0.0083 | 83 |
| | | | Silver | 7440-22-4 | 65.000 | 0.273 | 650000 | 0.0361 | 361 |
| | | | Substituted Polyamine | 68490-66-4 | 1.000 | 0.004 | 10000 | 0.0006 | 6 |
| 4 | Bond Wire | 0.56 | Gold | 7440-57-5 | 99.000 | 0.555 | 990000 | 0.0734 | 734 |
| | | | Palladium | 7440-05-3 | 1.000 | 0.006 | 10000 | 0.0007 | 7 |
| 5 | Die | 0.89 | Aluminum | 7429-90-5 | 0.163 | 0.001 | 1630 | 0.0002 | 2 |
| | | | Copper | 7440-50-8 | 0.001 | 0.000 | 10 | 0.0000 | 0 |
| | | | Silicon | 7440-21-3 | 99.726 | 0.888 | 997260 | 0.1174 | 1174 |
| | | | Tungsten | 7440-33-7 | 0.110 | 0.001 | 1100 | 0.0001 | 1 |
| 6 | Die | 0.81 | Aluminum | 7429-90-5 | 0.163 | 0.001 | 1630 | 0.0002 | 2 |
| | | | Copper | 7440-50-8 | 0.001 | 0.000 | 10 | 0.0000 | 0 |
| | | | Silicon | 7440-21-3 | 99.726 | 0.808 | 997260 | 0.1068 | 1068 |
| | | | Tungsten | 7440-33-7 | 0.110 | 0.001 | 1100 | 0.0001 | 1 |
| | Total Unit Weight = | 756.33 | | | | 756.33 | | 100.0000 | 1000000 |