



### DO214AB (SMC) SCHOTTKY Rectifier

| Material Content Declaration       |                                                  |                      |                           |                       |                        |
|------------------------------------|--------------------------------------------------|----------------------|---------------------------|-----------------------|------------------------|
| Material name                      | Substance name<br>e.g. Copper (Cu),<br>Gold (Au) | CAS no., if<br>known | Substance<br>mass<br>(mg) | % OF<br>Weight<br>(%) | ppm Of Total<br>Weight |
| <b>Lead Frame</b><br><b>31.19%</b> | Copper (Cu)                                      | 7440-50-8            | 51.743                    | 99.91                 | 204,784.9              |
|                                    | Iron (Fe)                                        | 7439-89-6            | 0.031                     | 0.06                  | 122.7                  |
|                                    | Phosphorus (P)                                   | 7723-14-0            | 0.016                     | 0.03                  | 63.3                   |
|                                    | <b>Total</b>                                     |                      | <b>51.79</b>              |                       |                        |
| <b>Solder</b><br><b>0.98%</b>      | Lead (Pb)                                        | 7439-92-1            | 1.59                      | 92.50                 | 6,296.8                |
|                                    | Tin (Sn)                                         | 7440-31-5            | 0.09                      | 5.00                  | 340.4                  |
|                                    | Silver (Ag)                                      | 7440-22-4            | 0.04                      | 2.50                  | 170.2                  |
|                                    | <b>Total</b>                                     |                      | <b>1.72</b>               |                       |                        |
| <b>Chip</b><br><b>1.30%</b>        | Silicon(Si)                                      | 7440-21-3            | 1.533                     | 93.5                  | 6,068.1                |
|                                    | Silver (Ag)                                      | 7440-22-4            | 0.096                     | 5.8                   | 379.1                  |
|                                    | Nickel (Ni)                                      | 7440-02-0            | 0.009                     | 0.5                   | 33.8                   |
|                                    | Titanium(Ti)                                     | 7440-32-6            | 0.002                     | 0.2                   | 9.7                    |
|                                    | <b>Total</b>                                     |                      | <b>1.64</b>               |                       |                        |
| <b>Molding</b><br><b>65.86%</b>    | Silica (SiO <sub>2</sub> )                       | 60676-86-0           | 145.70                    | 74.11                 | 576,642.5              |
|                                    | Aluminum hydroxide                               | 21645-51-2           | 13.37                     | 6.80                  | 52,910.1               |
|                                    | Epoxy resin                                      | 29690-82-2           | 24.58                     | 12.50                 | 97,261.2               |
|                                    | Phenolic resin                                   | 9003-36-5            | 12.19                     | 6.20                  | 48,241.6               |
|                                    | carbon black                                     | 1333-86-4            | 0.77                      | 0.39                  | 3,034.6                |
|                                    | <b>Total</b>                                     |                      | <b>196.60</b>             |                       |                        |
| <b>Plating</b><br><b>0.67%</b>     | Tin (Sn)                                         | 7440-31-5            | 0.92                      | 100.00                | 3,641.1                |
|                                    | <b>Total</b>                                     |                      | <b>0.92</b>               |                       |                        |
|                                    | <b>Total mass<br/>(mg)</b>                       |                      | <b>252.67</b>             |                       |                        |