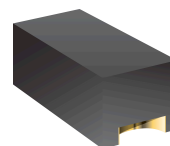


MATERIAL DECLARATION SHEET



| | | | |
|-----------------|----------------|-----|---|
| Material Number | CD1005 Series | | |
| Product Line | Diode Products | | |
| Compliance Date | 1 Jan 2005 | | |
| RoHS Compliant | Yes | MSL | 1 |



| No. | Construction Element (subpart) | Homogeneous Material | Material weight [mg] | Homogeneous Material\ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|--------------------------------|----------------------|----------------------|----------------------------------|---------------------|------------------|-----------------------------------|-------------------------------|
| 1 | FR-5 BOARD | Substrate/ Terminal | 2.716 | Copper | 7440-50-8 | 29.34% | 12.16 | 41.45 |
| | | | | Nickel | 7440-02-0 | 4.762% | 1.97 | |
| | | | | Gold | 7440-57-5 | 0.155% | 0.064 | |
| | | | | Lead | 7439-92-1 | 0.002% | 0.0008 | |
| | | | | Epoxy resin | 68928-70-1 | 65.74% | 27.249 | |
| 2 | Wafer | Diode | 0.057 | Silicon | 7440-21-3 | 94.21% | 0.838 | 0.89 |
| | | | | Aluminum | 7429-90-5 | 0.44% | 0.0039 | |
| | | | | Titanium | 7440-32-6 | 0.08% | 0.0007 | |
| | | | | Gold | 7440-57-5 | 5.20% | 0.046 | |
| | | | | Arsenic | 7440-38-2 | 0.07% | 0.0006 | |
| 3 | Al Wire | Conductor | 0.002 | Aluminum | 7429-90-5 | >99% | >0.0297 | 0.03 |
| | | | | Silicon | 7440-21-3 | <1% | <0.0003 | |
| 4 | Silver paste | Welding | 0.012 | Silver | 7440-22-4 | 75~82% | 0.135~0.147 | 0.18 |
| | | | | Epoxy | 9003-36-5 | 18~25% | 0.0324~0.045 | |
| | | | | Dicyanodiamide | 461-58-5 | | | |
| | | | | p-t Butylphenyl Glycidyl Ether | 3101-60-8 | | | |
| 5 | Molding Compound | Outer | 3.762 | Silica fused | 60676-86-0 | 75~95% | 43.08~54.57 | 57.45 |
| | | | | Epoxy resin | 68928-70-1 | 6~10% | 3.447~5.745 | |
| | | | | Phenol resin | 29690-82-2 | 2~6% | 1.149~3.447 | |
| | | | | Antimony Trioxide | 1309-64-4 | 0.5~2.5% | 0.287~1.436 | |
| | | | | Brominated Epoxy resin | 68541-56-0 | 0.5~2.5% | 0.287~1.436 | |
| | | | | Carbon Black | 1333-86-4 | 0.1~0.5% | 0.057~0.287 | |
| | | Total weight | 6.549 | | | | | |

This Document was updated on: 3-14-2012

MATERIAL DECLARATION SHEET

BOURNS[®]

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.