


MATERIAL DATA SHEET

SMD Diodes Specialist

Material #	CDBZ series (0201) (Halogen Free)	
Product Line	0201	
Date	2012/11/28	
Rev. date	A	

NO.	Construction element	Material group	Material weight (mg)	Material	CAS if applicable	Average mass (%)	Sum(%)
1	Wafer	Wafer	0.015	Silicon	7440-21-3	1.00	0.77%
2	Lead Frame	Lead Frame	0.531	Iron	7439-89-6	2.1% ~2.6%	27.19%
				Phosphorus	7723-14-0	0.015% ~0.15%	
				Zinc	7440-66-6	0.05% ~0.2%	
				Lead	7439-92-1	<0.03%	
				Silver	7440-22-4	0.0738% ~1.998%	
3	Epoxy	Epoxy	0.3	Copper	7440-50-8	Bal.	15.36%
				Silver	7440-22-4	>50%	
				Epoxy resin	TS ref# 10030	10%-20%	
				1,4-Butanedioldiglycidyl ether	2425-79-8	5%-10%	
4	Wire	Wire	0.009	Amine	TS ref# 10039	1%-5%	0.46%
				Aurum	7440-57-5	1.00	
5	Mold Compound	Mold Compound	1.098	Epoxy Resin-1	Trade Secret	2%~5%	56.22%
				Epoxy Resin-2	Trade Secret	0.5%~4%	
				Phenol Resin	Trade Secret	2%~5%	
				Silica	60676-86-0	80%~90%	
				Carbon Black	1333-86-4	approx.0.2%	
				Metal hydroxide	Trade Secret	1~10%	
				Others	N/A	max.2%	
Total weight			1.953				