

# MATERIAL DATA SHEET

Material #	<b>SOT-523 SERIES (Halogen Free)</b>	
Product Line		
Date	2011/10/5	
Rev. date	B	

## COMPONENT DETILS

No.	Construction element	Material group	Material weight (mg)	Material	CAS if applicable	Average mass (%)	Sum(%)	Traces
1	Lead Frame	Substrate/Terminal	1.14	Copper	7440-50-8	97%	40.70%	
				Iron	7439-89-6	2.3%		
				Zinc	7440-66-6	0.1%		
				Phosphorus	7723-14-0	0.1%		
				Lead	7439-92-1	0.0%		
				Silver	7440-22-4	0.5%		
2	Wire	Conductor	0.019	Aurum	7440-57-5	100.00%	0.68%	
3	Mold Compound	Outer	1.3	Silica Fused	60676-86-0	60~90%	46.41%	
				Silica amorphous	7631-86-9	5~20%		
				Eoxy resin	Trade Secret	2~10%		
				Phenolic Resin	Trade Secret	2~10%		
				Carbon Resin	01333-86-4	<1%		
				Flame Retardand	Trade Secret	<5%		
4	Wafer	Diode	0.200	Silicon	7440-21-3	95.50%	7.14%	
				Gold	7440-57-5	3.50%		
				Aluminum	7429-90-5	1.00%		
5	Plating	Protector	0.142	Tin	7440-31-5	100.00%	5.07%	
		Total weight	2.801					