


MATERIAL DECLARATION SHEET



Package Type	SOT23-5			
Product Line	Thyristor Surge Protectors			
Compliance Date	April 1, 2022			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Encapsulation	Epoxy Resin	0.00803916	Amorphous Silica	60676-86-0	87.600	46.50296	49.9541
				Epoxy Resin A	Proprietary	4.900	1.28442	
				Epoxy Resin B	29690-82-2	4.000	1.15683	
				Phenol Resin	Proprietary	3.000	0.78638	
				Carbon Black	1333-86-4	0.500	0.22348	
2	Leadframe	Copper Alloy	0.00647543	Copper	7440-50-8	96.540	38.99273	40.2373
				Iron	7439-89-6	2.600	0.92286	
				Phosphorus	7723-14-0	0.150	0.01582	
				Zinc	7440-66-6	0.200	0.06437	
				Lead	7439-92-1	0.010	0.00511	
				Silver	7440-22-4	0.500	0.23644	
3	Chip	Silicon	0.00071401	Silicon	7440-21-3	90.720	3.37577	4.4367
				Aluminum	7429-90-5	3.050	0.13152	
				Nickel	7440-02-0	5.970	0.84931	
				Gold	7440-57-5	0.260	0.08014	
4	Die Attach	Silver Epoxy	0.00014000	Silver	7440-22-4	75.000	0.84487	0.8700
				Bisphenol-F-(Epichlorhydrin); Epoxy resin	9003-36-5	19.900	0.01969	
				1,4-bis(2,3 Epoxypropoxy) Butane	2425-79-8	3.000	0.00328	
				Aromatic Polyamine	Proprietary	2.000	0.00198	
				Adipic Acid	124-04-9	0.100	0.00014	
5	Bond Wires	Copper	0.00008331	Copper	7440-50-8	98.700	0.50983	0.51770
				Non - Cu Element	Proprietary	1.300	0.00787	
6	Lead Finish	Matte Tin	0.00064118	Tin	7440-31-5	100.000	3.98420	3.9842
		Total Weight	0.0160931					

Important remarks:

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