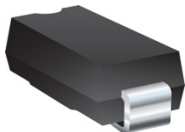


MATERIAL DECLARATION SHEET



Material Number	SMB (DO-214AA)			
Product Line	Thyristor Surge Protectors			
Compliance Date	11/31/2004			
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	0.058376	Quartz (SiO ₂)	14808-60-7	75.0	42.473	56.63
				Epoxy resin	39690-82-2	13.5	7.645	
				Phenolic resin	9003-35-4	9.7	5.493	
				Metal Hydroxide	Proprietary	1.5	0.849	
				Carbon black	1333-86-4	0.3	0.170	
2	Lead frame	Copper	0.038826	Copper	7440-50-8	99.87	37.616	37.665
				Iron	7439-89-6	0.1	0.038	
				Phosphorus	7723-14-0	0.03	0.011	
3	Chip	Silicon	0.003085	Silicon	7440-21-3	92.96	2.782	2.993
				Aluminum	7429-90-5	4.14	0.124	
				Nickel	7440-02-0	2.77	0.083	
				Gold	7440-57-5	0.13	0.004	
4	Die attach	HMP Solder	0.000654	Tin	7440-31-5	5.0	0.032	0.634
				Lead	7439-92-1	92.5	0.587	
				Silver	7440-22-4	2.5	0.016	
5	Terminal finish	Matte Sn	0.002142	Tin	7440-31-5	100	2.078	2.078
		Total weight	0.103083					

This Document was updated on: 2019/08/23

Important remarks:

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

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