

The RoHS directive, REACH regulation, and other laws and regulations related to the management of environmentally hazardous substances come into effect. When developing products, the global environmental load must be considered. ROHM pursues green procurement and endeavors to increase the detection accuracy of chemicals contained in parts and procured materials while at the same time placing great importance on the internal chemical management system that was built to ensure that no prohibited substances are procured, used or shipped in order to provide a steady supply of worry-free products.

Type	Package Code	ROHM Package	Mass (g)	Part No.
SiC PM	-	E type	349.3990	BSM300D12P2E001

No	Part Name	Part	Weight (g)	Substance Name	CAS No	Weight (g)	Portion vs. Products	Portion vs. Part Name
1	Cu base	Base material	242.9100	Copper (Cu)	7440-50-8	242.9100	61.59%	100.00%
		Surface treatment	0.6100	Nickel (Ni)	7440-02-0	0.6100	0.15%	100.00%
2	Direct Bonded Copper Substrate	Base material	21.1830	Copper (Cu)	7440-50-8	15.9323	4.04%	75.21%
				Aluminum nitride(AlN)	24304-00-5	5.0732	1.29%	23.95%
				Silver (Ag)	7440-22-4	0.1080	0.03%	0.51%
				Yttrium oxide	1314-36-9	0.0668	0.02%	0.32%
				Titanium (Ti)	7440-32-6	0.0027	0.00%	0.01%
		Surface treatment	0.1838	Nickel(Ni)	7440-02-0	0.1656	0.04%	90.09%
				Phosphorus(P)	7723-14-0	0.0182	0.005%	9.91%
3	Adhesive		1.0000	Polyalkyl alkenyl siloxane	-	0.5000	0.13%	50.00%
				Silica(Quartz)	14808-60-7	0.4000	0.10%	40.00%
				Polyalkyl hydrogen siloxane	-	0.0500	0.01%	5.00%
				Silica(Amorphous)	-	0.0500	0.01%	5.00%
4	Case	Body	43.0270	Filler	-	27.3270	6.93%	63.51%
				Poly phenylene sulfide	26125-40-6	15.4900	3.93%	36.00%
				Carbon black	-	0.2100	0.05%	0.49%
		Color	2.3962	Brass	12597-71-6	2.3962	0.61%	100.00%
		Nut (Base material)	8.7234	Iron (Fe)	7439-89-6	8.7234	2.21%	100.00%
		Nut (Surface treatment)	0.0764	Chromic compound	-	0.0764	0.02%	100.00%
		Terminal (Base material)	17.8600	Copper (Cu)	7440-50-8	17.8600	4.53%	100.00%
		Terminal (Surface treatment)	0.0531	Nickel (Ni)	7440-02-0	0.0531	0.01%	100.00%
5	Lid		13.5100	Polybutylene terephthalate	24968-12-5	7.4981	1.90%	55.50%
				Glass Fiber	65997-17-3	4.0530	1.03%	30.00%
				Brominated flame retardants	-	1.3510	0.34%	10.00%
				Antimony trioxide	1309-64-4	0.5404	0.14%	4.00%
				Carbon black	1333-86-4	0.0676	0.02%	0.50%
6	Aluminum wire		0.9101	Aluminum (Al)	7429-90-5	0.9101	0.23%	100.00%
7	Silicone gel		32.0000	Silicone	-	32.0000	8.11%	100.00%
8	Solder		6.8430	Tin (Sn)	7440-31-5	6.3100	1.60%	92.21%
				Silver (Ag)	7440-22-4	0.2600	0.07%	3.80%
				Antimony (Sb)	7440-36-0	0.2300	0.06%	3.36%
				Copper (Cu)	7440-50-8	0.0430	0.01%	0.63%
9	MOS chip		2.9340	Silicon Carbide (SiC)	409-21-2	2.9263	0.74%	99.74%
				Aluminum (Al)	7429-90-5	0.0036	0.001%	0.12%
				Nickel (Ni)	7440-02-0	0.0020	0.0005%	0.07%
				Silver (Ag)	7440-22-4	0.0012	0.0003%	0.04%
				Gold (Au)	7440-57-5	0.0005	0.0001%	0.02%
				Titanium (Ti)	7440-32-6	0.0004	0.0001%	0.01%
10	SBC chip		0.1791	Silicon Carbide (SiC)	409-21-2	0.1744	0.04%	97.39%
				Aluminum (Al)	7429-90-5	0.0022	0.001%	1.23%
				Nickel (Ni)	7440-02-0	0.0012	0.0003%	0.69%
				Silver (Ag)	7440-22-4	0.0007	0.0002%	0.41%
				Gold (Au)	7440-57-5	0.0003	0.0001%	0.17%
				Titanium (Ti)	7440-32-6	0.0002	0.0001%	0.12%
			394.3990			394.3990	100.00%	

備考

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免責事項

Constitution Materials List is composed using the information provided by the raw material suppliers. However, due to the confidentiality of some suppliers, some information may not be provided fully. Therefore we cannot guarantee that all chemical substances information are listed in it.

- The content shown is the representative value content.
- The data does not include overcoat, impurities and dopant diffused in the semiconductor chip.

Notes

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- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
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