

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 (mg)	Part No.
SIC SBD	-	TO-220FM	2079.8242	SCS2□□□M

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	989.4100	Silica (crystalline)	14808-60-7	791.5280	38.06%	80.00%
			Epoxy resin	-	98.9410	4.76%	10.00%
			Phenol-formaldehyde resin	-	81.1316	3.90%	8.20%
			Bromide Epoxy resin	-	12.8623	0.62%	1.30%
			Antimony trioxide	1309-64-4	1.9788	0.10%	0.20%
			Carbon black	1333-86-4	2.9682	0.14%	0.30%
			<i>Subtotal</i>		<i>989.4100</i>	<i>47.57%</i>	<i>100%</i>
2	Lead frame (Base material)	1082.3200	Iron (Fe)	7439-89-6	1.0823	0.05%	0.10%
			Copper (Cu)	7440-50-8	1080.9130	51.97%	99.87%
			Phosphorus(P)	7723-14-0	0.3247	0.02%	0.03%
			<i>Subtotal</i>		<i>1082.3200</i>	<i>52.02%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	0.000034	Nickel (Ni)	7440-02-0	0.000034	0.000002%	100.00%
			<i>Subtotal</i>		<i>0.000034</i>	<i>0.00%</i>	<i>100%</i>
4	External plating	3.0000	Tin (Sn)	7440-31-5	3.0000	0.14%	100.00%
			<i>Subtotal</i>		<i>3.0000</i>	<i>0.14%</i>	<i>100%</i>
5	Die	2.5110	Silicon Carbide(SiC)	409-21-2	2.4490	0.12%	97.53%
			Aluminum (Al)	7429-90-5	0.0280	0.001%	1.12%
			Nickel (Ni)	7440-02-0	0.0170	0.001%	0.68%
			Silver (Ag)	7440-22-4	0.0100	0.0005%	0.40%
			Gold (Au)	7440-57-5	0.0040	0.0002%	0.16%
			Titanium(Ti)	7440-32-6	0.0030	0.0001%	0.12%
			<i>Subtotal</i>		<i>2.5110</i>	<i>0.12%</i>	<i>100%</i>
6	Die attach	1.9622	Lead (Pb) *1	7439-92-1	1.8347	0.09%	93.50%
			Tin (Sn)	7440-31-5	0.0981	0.005%	5.00%
			Silver (Ag)	7440-22-4	0.0294	0.001%	1.50%
			<i>Subtotal</i>		<i>1.9622</i>	<i>0.09%</i>	<i>100%</i>
7	Bonding wire	0.6209	Aluminum (Al)	7429-90-5	0.6209	0.03%	100.00%
			<i>Subtotal</i>		<i>0.6209</i>	<i>0.03%</i>	<i>100%</i>
			<i>Total</i>	-	<i>2079.8242</i>	<i>100%</i>	-

Note
※1 It is exempted from the RoHS, because of the high melting point solder.
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