



# CONSTITUTION MATERIALS LIST

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-247	6344.0042	SCS2□□□E2

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name	
1	Mold compound	2045.6900	Silica (amorphous)	60676-86-0	1544.5000	24.35%	75.50%	
			Silica (crystalline)	14808-60-7	61.3700	0.97%	3.00%	
			Phenol-formaldehyde resin	-	204.5700	3.22%	10.00%	
			Epoxy resin	-	184.1100	2.90%	9.00%	
			Antimony trioxide	1309-64-4	40.9100	0.64%	2.00%	
			Carbon black	1333-86-4	10.2300	0.16%	0.50%	
			<i>Subtotal</i>		<i>2045.6900</i>		<i>32.25%</i>	<i>100%</i>
2	Lead frame (Base material)	3992.7600	Iron (Fe)	7439-89-6	5.9900	0.09%	0.15%	
			Copper (Cu)	7440-50-8	3966.8100	62.53%	99.35%	
			Phosphorus(P)	7723-14-0	19.9600	0.31%	0.50%	
			<i>Subtotal</i>		<i>3992.7600</i>		<i>62.62%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	10.4200	Nickel (Ni)	7440-02-0	10.4200	0.16%	100.00%	
			<i>Subtotal</i>		<i>10.4200</i>		<i>0.16%</i>	<i>100%</i>
4	External plating	270.1700	Tin (Sn)	7440-31-5	270.1700	4.26%	100.00%	
			<i>Subtotal</i>		<i>270.1700</i>		<i>4.26%</i>	<i>100%</i>
5	Die	8.4942	Silicon Carbide(SiC)	409-21-2	8.2790	0.13%	97.47%	
			Aluminum (Al)	7429-90-5	0.0982	0.002%	1.16%	
			Nickel (Ni)	7440-02-0	0.0584	0.001%	0.69%	
			Silver (Ag)	7440-22-4	0.0344	0.001%	0.40%	
			Gold (Au)	7440-57-5	0.0148	0.0002%	0.17%	
			Titanium(Ti)	7440-32-6	0.0094	0.0001%	0.11%	
			<i>Subtotal</i>		<i>8.4942</i>		<i>0.13%</i>	<i>100%</i>
6	Die attach	11.4300	Lead (Pb) *1	7439-92-1	10.9100	0.17%	95.45%	
			Tin (Sn)	7440-31-5	0.2300	0.004%	2.01%	
			Silver (Ag)	7440-22-4	0.2900	0.005%	2.54%	
			<i>Subtotal</i>		<i>11.4300</i>		<i>0.18%</i>	<i>100%</i>
7	Bonding wire	5.0400	Aluminum (Al)	7429-90-5	5.0400	0.08%	100.00%	
			<i>Subtotal</i>		<i>5.0400</i>		<i>0.08%</i>	<i>100%</i>
				<i>Total</i>	-	<i>6344.0042</i>	<i>100%</i>	-

## Note

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

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