

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.

Туре	Package Code	ROHM Package	Mass (mg)	Part No.	
IGBT	-	TO-247N(Halogen free)	6420.6515	-	

Nº	Part Name	Weight (mg)	Substance Name		CAS №	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	1946.8063	Silica (amorphous)		60676-86-0	1696.6417	26.42%	87.15%
			Epoxy resin		-	146.0105	2.27%	7.50%
			Phenol-formaldehyde resin		-	97.3403	1.52%	5.00%
			Carbon black		1333-86-4	6.8138	0.11%	0.35%
				Subtotal		1946.8063	30.32%	100%
2	Lead frame (Base material)	4419.3157	Copper (Cu)		7440-50-8	4413.7916	68.74%	99.88%
			Tin (Sn)		7440-31-5	5.5241	0.09%	0.12%
				Subtotal		4419.3157	68.83%	100%
3	Lead frame	0.8082	Nickel (Ni)		7440-02-0	0.8082	0.01%	100.00%
	(Surface treatment)			Subtotal		0.8082	0.01%	100%
4	External plating	5.7262	Tin (Sn)		7440-31-5	5.7262	0.09%	100.00%
				Subtotal		5.7262	0.09%	100%
5 Die		6.2973	Silicon (Si)		7440-21-3	5.9646	0.09%	94.72%
			Aluminum (Al)		7429-90-5	0.1686	0.003%	2.68%
			Titanium(Ti)		7440-32-6	0.0172	0.0003%	0.27%
	Die		Nickel (Ni)		7440-02-0	0.0675	0.001%	1.07%
			Gold (Au)		7440-57-5	0.0138	0.0002%	0.22%
			Silver (Ag)		7440-22-4	0.0656	0.001%	1.04%
				Subtotal		6.2973	0.10%	100%
6	Die attach	28.5767	Lead (Pb) *1		7439-92-1	27.2908	0.43%	95.50%
			Tin (Sn)		7440-31-5	0.5715	0.009%	2.00%
			Silver (Ag)		7440-22-4	0.7144	0.01%	2.50%
				Subtotal		28.5767	0.45%	100%
7	Bonding wire	13.1211	Aluminum (Al)		7429-90-5	13.1211	0.20%	100.00%
				Subtotal		13.1211	0.20%	100%
					-	6420.6515	100%	-

Note

X1 It is exempted from the RoHS, because of the high melting point solder.

Disclaimer

- ·All information in this document is furnished for exploratory or indicative purposes only.
- This information provides estimates of the average weights and content of component materials, and does not include impurities
 or metals diffused in the silicon.
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Notes

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