

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.

TR-TSMT6M_Cu-HF-JE_Rev.6

Туре	Package Code	ROHM Package	Mass (mg)	Part No.	
Transistor	SOT-457T(SC-95)	TSMT6 (Halogen free)	13.9340	-	

Nº	Part Name	Weight (mg)	Substance Name		CAS №	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	5.5770	Silica (amorphous)		60676-86-0	3.8175	27.40%	68.45%
			Epoxy resin I		-	0.5242	3.76%	9.40%
			Epoxy resin II		-	0.1645	1.18%	2.95%
			Metal hydroxide		21645-51-2	0.7306	5.24%	13.10%
			Stiffening		26834-02-6	0.3235	2.32%	5.80%
			Carbon black		1333-86-4	0.0167	0.12%	0.30%
			Subtotal			5.5770	40.02%	100%
2	Lead frame (Base material)	7.4011	Copper (Cu)		7440-50-8	7.3937	53.06%	99.90%
			Iron (Fe)		7439-89-6	0.0074	0.05%	0.10%
				Subtotal		7.4011	53.12%	100%
3	Lead frame (Surface treatment)	0.1219	Silver (Ag)		7440-22-4	0.1219	0.87%	100.00%
				Subtotal		0.1219	0.87%	100%
4	External plating	0.2347	Tin (Sn)		7440-31-5	0.2347	1.68%	100.00%
				Subtotal		0.2347	1.68%	100%
5	Die	0.4850	Silicon (Si)		7440-21-3	0.4718	3.39%	97.28%
			Nickel (Ni)		7440-02-0	0.0071	0.05%	1.46%
			Silver (Ag)		7440-22-4	0.0041	0.03%	0.85%
			Gold (Au)		7440-57-5	0.0020	0.01%	0.41%
				Subtotal		0.4850	3.48%	100%
6	Die attach	0.0573	Silver (Ag)		7440-22-4	0.0492	0.35%	85.86%
			Epoxy Resin		-	0.0066	0.05%	11.52%
			Phenol resin		-	0.0015	0.01%	2.62%
				Subtotal		0.0573	0.41%	100%
7	Bonding wire	0.0570	Copper (Cu)		7440-50-8	0.0570	0.41%	100.00%
				Subtotal		0.0570	0.41%	100%
				Total	-	13.9340	100%	-

Note

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- •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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