

# 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-TUMT3-JE\_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	SOT-323T	TUMT3	7.5000	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name	
1	Mold compound	3.3160	Silica (amorphous)	60676-86-0	2.7640	36.85%	83.35%	
			Epoxy resin	-	0.2418	3.22%	7.29%	
			Phenol-formaldehyde resin	-	0.2418	3.22%	7.29%	
			Epoxy resin bromide	68541-56-0	0.0345	0.46%	1.04%	
			Antimony trioxide	1309-64-4	0.0173	0.23%	0.52%	
			Organic phosphorus compounds	-	0.0159	0.21%	0.48%	
			Bismuth compounds	-	0.0007	0.01%	0.02%	
			<i>Subtotal</i>				3.3160	44.21%
2	Lead frame (Base material)	3.7015	Copper (Cu)	7440-50-8	3.6978	49.30%	99.90%	
			Iron (Fe)	7439-89-6	0.0037	0.05%	0.10%	
			<i>Subtotal</i>				3.7015	49.35%
3	Lead frame (Surface treatment)	0.0755	Silver (Ag)	7440-22-4	0.0755	1.01%	100.00%	
			<i>Subtotal</i>				0.0755	1.01%
4	External plating	0.0400	Tin (Sn)	7440-31-5	0.0392	0.52%	98.00%	
			Copper (Cu)	7440-50-8	0.0008	0.01%	2.00%	
			<i>Subtotal</i>				0.0400	0.53%
5	Die	0.1890	Silicon (Si)	7440-21-3	0.1829	2.44%	96.77%	
			Nickel (Ni)	7440-02-0	0.0031	0.04%	1.64%	
			Silver (Ag)	7440-22-4	0.0020	0.03%	1.06%	
			Gold (Au)	7440-57-5	0.0010	0.01%	0.53%	
			<i>Subtotal</i>				0.1890	2.52%
6	Die attach	0.0260	Silver (Ag)	7440-22-4	0.0218	0.29%	83.70%	
			Epoxy Resin	-	0.0042	0.06%	16.30%	
			<i>Subtotal</i>				0.0260	0.35%
7	Bonding wire	0.1520	Gold (Au)	7440-57-5	0.1520	2.03%	100.00%	
			<i>Subtotal</i>				0.1520	2.03%
				<i>Total</i>	-	7.5000	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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