

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-TSMT5-JE_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	SOT-25T	TSMT5	13.5000	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name	
1	Mold compound	5.6730	Silica (amorphous)	60676-86-0	4.7000	34.81%	82.85%	
			Epoxy resin	-	0.4112	3.05%	7.25%	
			Phenol-formaldehyde resin	-	0.4112	3.05%	7.25%	
			Epoxy resin bromide	68541-56-0	0.0588	0.44%	1.04%	
			Antimony trioxide	1309-64-4	0.0295	0.22%	0.52%	
			Organic phosphorus compounds	-	0.0447	0.33%	0.79%	
			Bismuth compounds	-	0.0176	0.13%	0.31%	
			<i>Subtotal</i>		<i>5.6730</i>	<i>42.02%</i>	<i>100%</i>	
2	Lead frame (Base material)	6.9782	Copper (Cu)	7440-50-8	6.9712	51.64%	99.90%	
			Iron (Fe)	7439-89-6	0.0070	0.05%	0.10%	
			<i>Subtotal</i>		<i>6.9782</i>	<i>51.69%</i>	<i>100%</i>	
3	Lead frame (Surface treatment)	0.1258	Silver (Ag)	7440-22-4	0.1258	0.93%	100.00%	
			<i>Subtotal</i>		<i>0.1258</i>	<i>0.93%</i>	<i>100%</i>	
4	External plating	0.1980	Tin (Sn)	7440-31-5	0.1911	1.42%	96.50%	
			Silver (Ag)	7440-22-4	0.0059	0.04%	3.00%	
			Copper (Cu)	7440-50-8	0.0010	0.01%	0.50%	
			<i>Subtotal</i>		<i>0.1980</i>	<i>1.47%</i>	<i>100%</i>	
5	Die	0.3600	Silicon (Si)	7440-21-3	0.3508	2.60%	97.44%	
			Nickel (Ni)	7440-02-0	0.0051	0.04%	1.42%	
			Silver (Ag)	7440-22-4	0.0031	0.02%	0.86%	
			Gold (Au)	7440-57-5	0.0010	0.01%	0.28%	
			<i>Subtotal</i>		<i>0.3600</i>	<i>2.67%</i>	<i>100%</i>	
6	Die attach	0.0420	Silver (Ag)	7440-22-4	0.0352	0.26%	83.70%	
			Epoxy Resin	-	0.0068	0.05%	16.30%	
			<i>Subtotal</i>		<i>0.0420</i>	<i>0.31%</i>	<i>100%</i>	
7	Bonding wire	0.1230	Gold (Au)	7440-57-5	0.1230	0.91%	100.00%	
			<i>Subtotal</i>		<i>0.1230</i>	<i>0.91%</i>	<i>100%</i>	
				<i>Total</i>	-	<i>13.5000</i>	<i>100%</i>	-

Note
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