

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-TSMT6-JE_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	SOT-457T(SC-95)	TSMT6	14.0000	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name	
1	Mold compound	5.5770	Silica (amorphous)	60676-86-0	4.6210	33.01%	82.86%	
			Epoxy resin	-	0.4043	2.89%	7.25%	
			Phenol-formaldehyde resin	-	0.4043	2.89%	7.25%	
			Epoxy resin bromide	68541-56-0	0.0578	0.41%	1.04%	
			Antimony trioxide	1309-64-4	0.0290	0.21%	0.52%	
			Organic phosphorus compounds	-	0.0433	0.31%	0.78%	
			Bismuth compounds	-	0.0173	0.12%	0.31%	
			<i>Subtotal</i>		<i>5.5770</i>		<i>39.84%</i>	<i>100%</i>
2	Lead frame (Base material)	7.4011	Copper (Cu)	7440-50-8	7.3937	52.81%	99.90%	
			Iron (Fe)	7439-89-6	0.0074	0.05%	0.10%	
			<i>Subtotal</i>		<i>7.4011</i>		<i>52.87%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	0.1219	Silver (Ag)	7440-22-4	0.1219	0.87%	100.00%	
			<i>Subtotal</i>		<i>0.1219</i>		<i>0.87%</i>	<i>100%</i>
4	External plating	0.2347	Tin (Sn)	7440-31-5	0.2265	1.62%	96.50%	
			Silver (Ag)	7440-22-4	0.0070	0.05%	3.00%	
			Copper (Cu)	7440-50-8	0.0012	0.01%	0.50%	
			<i>Subtotal</i>		<i>0.2347</i>		<i>1.68%</i>	<i>100%</i>
5	Die	0.4850	Silicon (Si)	7440-21-3	0.4718	3.37%	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%	
			<i>Subtotal</i>		<i>0.4850</i>		<i>3.46%</i>	<i>100%</i>
6	Die attach	0.0573	Silver (Ag)	7440-22-4	0.0480	0.34%	83.70%	
			Epoxy Resin	-	0.0093	0.07%	16.30%	
			<i>Subtotal</i>		<i>0.0573</i>		<i>0.41%</i>	<i>100%</i>
7	Bonding wire	0.1230	Gold (Au)	7440-57-5	0.1230	0.88%	100.00%	
			<i>Subtotal</i>		<i>0.1230</i>		<i>0.88%</i>	<i>100%</i>
				<i>Total</i>	-	<i>14.0000</i>	<i>100%</i>	-

Note
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