

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-CPT(Au)-JE\_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	TO-252(DPAK)	CPT3	293.0000	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	143.0760	Silica (crystalline)	14808-60-7	104.2659	35.59%	72.87%
			Epoxy resin	29690-82-2	21.7221	7.41%	15.18%
			Phenol-formaldehyde resin	9003-35-4	10.8610	3.71%	7.59%
			Epoxy resin bromide	40039-93-8	2.8963	0.99%	2.02%
			Antimony trioxide	1309-64-4	2.8963	0.99%	2.02%
			Organic phosphorus compounds	-	0.4344	0.15%	0.30%
			<i>Subtotal</i>		<i>143.0760</i>	<i>48.83%</i>	<i>100%</i>
2	Lead frame (Base material)	139.9693	Copper (Cu)	7440-50-8	139.8294	47.72%	99.90%
			Iron (Fe)	7439-89-6	0.1400	0.05%	0.10%
			<i>Subtotal</i>		<i>139.9693</i>	<i>47.77%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	1.1007	Silver (Ag)	7440-22-4	1.1007	0.38%	100.00%
			<i>Subtotal</i>		<i>1.1007</i>	<i>0.38%</i>	<i>100%</i>
4	External plating	4.4460	Tin (Sn)	7440-31-5	4.3571	1.49%	98.00%
			Copper (Cu)	7440-50-8	0.0889	0.03%	2.00%
			<i>Subtotal</i>		<i>4.4460</i>	<i>1.52%</i>	<i>100%</i>
5	Die	2.5760	Silicon (Si)	7440-21-3	2.5368	0.87%	98.48%
			Nickel (Ni)	7440-02-0	0.0213	0.01%	0.83%
			Silver (Ag)	7440-22-4	0.0130	0.00%	0.50%
			Gold (Au)	7440-57-5	0.0049	0.00%	0.19%
			<i>Subtotal</i>		<i>2.5760</i>	<i>0.88%</i>	<i>100%</i>
6	Die attach	1.7010	Lead (Pb) *2	7439-92-1	1.6245	0.55%	95.50%
			Tin (Sn)	7440-31-5	0.0340	0.01%	2.00%
			Silver (Ag)	7440-22-4	0.0425	0.01%	2.50%
			<i>Subtotal</i>		<i>1.7010</i>	<i>0.58%</i>	<i>100%</i>
7	Bonding wire	0.1310	Gold (Au)	7440-57-5	0.1310	0.04%	100.00%
			<i>Subtotal</i>		<i>0.1310</i>	<i>0.04%</i>	<i>100%</i>
			<i>Total</i>	-	<i>293.0000</i>	<i>100%</i>	-

Note
*2 : It is exempted from the RoHS, because of the high melting point solder.
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