



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-UMT3-JE_Rev.7

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	SOT-323(SC-70)	UMT3	4.8600	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	3.1123	Silica (amorphous)	60676-86-0	2.2572	46.44%	72.53%
			Epoxy resin	29690-82-2	0.4192	8.63%	13.47%
			Phenol resin	9003-35-4	0.2580	5.31%	8.29%
			Brominated epoxy resin	68541-56-0	0.1129	2.32%	3.63%
			Antimony trioxide	1309-64-4	0.0322	0.66%	1.03%
			Organic phosphorus compounds	-	0.0161	0.33%	0.52%
			Azo compound*1	-	0.0161	0.33%	0.52%
			Chromium compounds except for hexavalent chromium compounds	-	0.0006	0.01%	0.02%
			<i>Subtotal</i>		<i>3.1123</i>	<i>64.04%</i>	<i>100%</i>
2	Lead frame (Base material)	1.3809	Iron (Fe)	7439-89-6	0.8009	16.48%	58.00%
			Nickel (Ni)	7440-02-0	0.5800	11.93%	42.00%
			<i>Subtotal</i>		<i>1.3809</i>	<i>28.41%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	0.1842	Copper (Cu)	7440-50-8	0.1842	3.79%	100.00%
			<i>Subtotal</i>		<i>0.1842</i>	<i>3.79%</i>	<i>100%</i>
4	External plating	0.0914	Tin (Sn)	7440-31-5	0.0882	1.81%	96.50%
			Silver (Ag)	7440-22-4	0.0027	0.06%	3.00%
			Copper (Cu)	7440-50-8	0.0005	0.01%	0.50%
			<i>Subtotal</i>		<i>0.0914</i>	<i>1.88%</i>	<i>100%</i>
5	Die	0.0818	Silicon (Si)	7440-21-3	0.0770	1.58%	94.13%
			Gold (Au)	7440-57-5	0.0048	0.10%	5.87%
			<i>Subtotal</i>		<i>0.0818</i>	<i>1.68%</i>	<i>100%</i>
6	Bonding wire	0.0094	Gold (Au)	7440-57-5	0.0094	0.19%	100.00%
			<i>Subtotal</i>		<i>0.0094</i>	<i>0.19%</i>	<i>100%</i>
			<i>Total</i>	-	<i>4.8600</i>	<i>100%</i>	-

Note
*1 : Not created amine.
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