

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.

DI-TO-220FNSn-JE_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Diode	TO-220FN	TO-220FN	1800.0001	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	952.3181	Silica (crystalline)	14808-60-7	726.0473	40.34%	76.24%
			Epoxy resin	29690-82-2	116.0876	6.45%	12.19%
			Phenol-formaldehyde resin	9003-35-4	67.7098	3.76%	7.11%
			Epoxy resin bromide	40039-93-8	19.3321	1.07%	2.03%
			Antimony trioxide	1309-64-4	19.3321	1.07%	2.03%
			Organic phosphorus compounds	-	2.9522	0.16%	0.31%
			Bismuth compounds	-	0.8571	0.05%	0.09%
			<i>Subtotal</i>		<i>952.3181</i>		<i>52.91%</i>
2	Lead frame (Base material)	816.8330	Copper (Cu)	7440-50-8	816.0162	45.33%	99.90%
			Iron (Fe)	7439-89-6	0.8168	0.05%	0.10%
			<i>Subtotal</i>		<i>816.8330</i>		<i>45.38%</i>
3	External plating	15.6020	Tin (Sn)	7440-31-5	15.6020	0.87%	100.00%
			<i>Subtotal</i>		<i>15.6020</i>		<i>0.87%</i>
4	Die	3.5020	Silicon (Si)	7440-21-3	3.4845	0.19%	99.50%
			Silver (Ag)	7440-22-4	0.0175	0.001%	0.50%
			<i>Subtotal</i>		<i>3.5020</i>		<i>0.19%</i>
5	Die attach	10.2730	Tin (Sn)	7440-31-5	9.9134	0.55%	96.50%
			Antimony (Sb)	7440-36-0	0.3596	0.02%	3.50%
			<i>Subtotal</i>		<i>10.2730</i>		<i>0.57%</i>
6	Bonding wire	1.4720	Aluminum (Al)	7429-90-5	1.4720	0.08%	100.00%
			<i>Subtotal</i>		<i>1.4720</i>		<i>0.08%</i>
			<i>Total</i>	-	<i>1800.0001</i>	<i>100%</i>	-

Note

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- All information in this document is furnished for exploratory or indicative purposes only.
- 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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