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DI-UMD3FM-HF-JE\_Rev.7

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Diode	SOT-323FL	UMD3F (halogen free)	4.4313	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	3.2776	Silica (amorphous)	60676-86-0	2.4410	55.09%	74.25%
			Epoxy resin I	-	0.3090	6.97%	9.40%
			Epoxy resin II	-	0.0970	2.19%	2.95%
			Aluminum hydroxide	21645-51-2	0.4306	9.72%	13.10%
			Carbon black	1333-86-4	0.0099	0.22%	0.30%
			<i>Subtotal</i>		<i>3.2875</i>	<i>74.19%</i>	<i>100%</i>
2	Lead frame (Base material)	0.8532	Iron (Fe)	7439-89-6	0.4949	11.17%	58.00%
			Nickel (Ni)	7440-02-0	0.3583	8.09%	42.00%
			<i>Subtotal</i>		<i>0.8532</i>	<i>19.25%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	0.1158	Copper (Cu)	7440-50-8	0.1158	2.61%	100.00%
			<i>Subtotal</i>		<i>0.1158</i>	<i>2.61%</i>	<i>100%</i>
4	External plating	0.0838	Tin (Sn)	7440-31-5	0.0838	1.89%	100.00%
			<i>Subtotal</i>		<i>0.0838</i>	<i>1.89%</i>	<i>100%</i>
5	Die	0.0816	Silicon (Si)	7440-21-3	0.0768	1.73%	94.12%
			Gold (Au)	7440-57-5	0.0048	0.11%	5.88%
			<i>Subtotal</i>		<i>0.0816</i>	<i>1.84%</i>	<i>100%</i>
6	Bonding wire	0.0094	Gold (Au)	7440-57-5	0.0094	0.21%	100.00%
			<i>Subtotal</i>		<i>0.0094</i>	<i>0.21%</i>	<i>100%</i>
			<i>Total</i>	-	<i>4.4313</i>	<i>100%</i>	-

Note
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Disclaimer
<ul style="list-style-type: none"><li>•All information in this document is furnished for exploratory or indicative purposes only.</li><li>•This information provides estimates of the average weights and content of component materials. and does not include impurities or metals diffused in the silicon.</li><li>•ROHM strives for the accuracy of the information, however, ROHM does not give any representations or warranties as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.</li><li>•ROHM may make changes to information published in this document at any time and without notice.</li></ul>

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