

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-PMDTM-HF-JE_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Diode	-	PMDE	45.9730	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	18.8800	Silica (amorphous)	60676-86-0	12.9234	28.11%	68.45%
			Epoxy resin I	-	1.7756	3.86%	9.40%
			Epoxy resin II	-	0.5572	1.21%	2.95%
			Metal hydroxide	21645-51-2	2.4725	5.38%	13.10%
			Stiffening	-	1.0943	2.38%	5.80%
			Carbon black	1333-86-4	0.0570	0.12%	0.30%
			<i>Subtotal</i>		<i>18.8800</i>	<i>41.07%</i>	<i>100%</i>
2	Lead frame (Base material)	24.9980	Copper (Cu)	7440-50-8	24.4030	53.08%	97.62%
			Iron (Fe)	7439-89-6	0.5500	1.20%	2.20%
			Zinc (Zn)	7440-66-6	0.0375	0.08%	0.15%
			Phosphorus (P)	7723-14-0	0.0075	0.02%	0.03%
			<i>Subtotal</i>		<i>24.9980</i>	<i>54.38%</i>	<i>100%</i>
3	External plating	0.6100	Tin (Sn)	7440-31-5	0.6100	1.33%	100.00%
			<i>Subtotal</i>		<i>0.6100</i>	<i>1.33%</i>	<i>100%</i>
4	Die	0.8720	Silicon (Si)	7440-21-3	0.6230	1.36%	71.44%
			Silver (Ag)	7440-22-4	0.2490	0.54%	28.56%
			<i>Subtotal</i>		<i>0.8720</i>	<i>1.90%</i>	<i>100%</i>
5	Die attach	0.6130	Lead (Pb) *1	7439-92-1	0.5732	1.25%	93.50%
			Tin (Sn)	7440-31-5	0.0307	0.07%	5.00%
			Silver (Ag)	7440-22-4	0.0092	0.02%	1.50%
			<i>Subtotal</i>		<i>0.6130</i>	<i>1.33%</i>	<i>100%</i>
			<i>Total</i>	-	<i>45.9730</i>	<i>100%</i>	-

Note

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

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