

Full Material Declaration for attached parts list

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Diotec Semiconductor AG

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Declarations authorised by:

Udo Steinebrunner, Product Manager, -

Declaration effective from: 01 January 2009 [Approved on 06 February 2025, 15:47 GMT]

Materials and substances

Use/Location	Material Group	% w/w of material in the part	Substances in the material	CAS Number	% w/w of substance in the material
Base material	Cast aluminium alloys	22.4%	iron	14127-53-8	0.5%
			Aluminum	7429-90-5	99.5%
Chip (die)	Other inorganic materials	0.3%	Silicon dioxide Exempt from other regulatory requirements	14808-60-7	1%
			Gold	7440-57-5	11.5%
			Polydimethylsiloxane rubber	63394-02-5	25%
			Silicon	7440-21-3	62.5%
Die attach	Lead and Lead alloys	0.2%	Silver	7440-22-4	2.5%
			Tin	7440-31-5	5%
			Lead EU RoHS Exemption 7(a) Exempt from other regulatory requirements Exempt from other regulatory requirements	7439-92-1	92.5%
Encapsulation	EP (Epoxy resin)	15.5%	1,3-Isobenzofurandione, hexahydro-5-methyl-	19438-60-9	0.1%
			Low molecular weight solid DGEPA-based epoxy resins	25068-38-6	1.25%
			Benzyl-N,N-dimethylamine	103-83-3	3.1%
			1,3-Isobenzofurandione, 3a,4,7,7a-tetrahydro-4-methyl-	5333-84-6	6%
			cis-1,2,3,6-Tetrahydrophthalic anhydride	85-43-8	9.25%

Use/Location	Material Group	% w/w of material in the part	Substances in the material	CAS Number	% w/w of substance in the material
Housing	UP (Unsaturated polyester)	16.5%	1,3-Isobenzofurandione, tetrahydro-5-methyl-	34090-76-1	10.65%
			7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester	2386-87-0	14.65%
			Silica Exempt from other regulatory requirements	14808-60-7	55%
			ANTIMONY TRIOXIDE Exempt from other regulatory requirements	1309-64-4	17%
			polyethylene-ethyl acrylate	9010-86-0	28%
Leadfinish	Nickel plating	0.1%	Glass fibers	65997-17-3	55%
			Silver	7440-22-4	35%
Leadframe	Copper (e.g. copper amounts in cable harnesses)	45%	Nickel REACH Article 67 Exemption	8049-31-8	65%
			Copper	7440-50-8	100%

Attached parts list

Part number	Part name	Part Mass	Part Mass UoM
KBPCxxxxFP	Bridge Rectifier Square	17	g