

Full Material Declaration for PZU6.8B2L

Date	2025-06-10 13:21:42 CEST+0200
Package	<u>SOD882</u> (DFN1006-2): 0.48 mm × 1.0 mm × 0.6 mm
Description	Single Zener diodes
Datasheet	https://assets.nexperia.com/documents/data-sheet/PZUXBL_SER.pdf
OPNs	934061672315: PZU6.8B2L,315 (RFS), MSL 1
Automotive-qualified	Yes
UL-94	https://iq.ulprospector.com/en/profile?e=594631



REACH	Compliant with Regulation 1907/2006/EC (REACH). Does not contain REACH SVHC substances exceeding 1000 ppm of the article.
EU RoHS	Compliant with Directive 2011/65/EU, amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ('RoHS 2 amended') without exemptions.
CN RoHS	Compliant with Chinese Administration on the Control of Pollution Caused by Electronic Information Products (ACPEIP; CN RoHS).
ELV	Compliant with Directive 2000/53/EC, amended by Directive 2023/533, on end of life vehicles (ELV) without exemptions.
PFAS	Does not contain any intentionally added per- and polyfluoroalkyl substances (PFAS).
CA Proposition 65	Contains California Proposition 65 substance(s) [at the article level]: substance 7440-02-0: 19185 ppm; substance 1333-86-4: 2382 ppm; substance 7439-92-1: 1 ppm;
IEC 62474	Contains IEC 62474 substance(s) [at the article level]: substance 7440-02-0: 19185 ppm; substance 1333-86-4: 2382 ppm; substance 7439-92-1: 1 ppm;
Precious Metals	Contains precious metals [Ag, Au, Pd, Pt; at the article level]: substance 7440-22-4: 8046 ppm; substance 7440-05-3: 738 ppm; substance 7440-57-5: 4958 ppm;
GADSL	Contains 'Global Automotive Declarable Substances List' (GADSL) substances: substance 7440-22-4: 8046 ppm; substance 7440-50-8: 410148 ppm; substance 7440-02-0: 19186 ppm; substance 7439-95-4: 868 ppm; substance 7440-05-3: 738 ppm; substance 7439-92-1: 1 ppm;
RHF Indicator	D: Lead-free and halogen-free according to Nexperia's halogen-free definition.

Material	Mat. Group	Substance	CAS No.	Mass / mg	Mass-% of Material	Mass-% of Part
Adhesive	Filler	Silver (Ag)	7440-22-4	0.007600	76.000000	0.804608
Adhesive	Polymer	Phenolic resin		0.001353	13.530000	0.143241
Adhesive	Polymer	Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	0.001047	10.470000	0.110845
Adhesive Total				0.010000	100.000000	1.058694
Die	Doped silicon	Silicon (Si)	7440-21-3	0.050000	100.000000	5.293470
Die Total				0.050000	100.000000	5.293470
Lead Frame	Copper alloy	Copper (Cu)	7440-50-8	0.387409	94.490000	41.014758
Lead Frame	Copper alloy	Nickel (Ni)	7440-02-0	0.012915	3.150000	1.367303
Lead Frame	Copper alloy	Silicon (Si)	7440-21-3	0.002829	0.690000	0.299505
Lead Frame	Copper alloy	Magnesium (Mg)	7439-95-4	0.000820	0.200000	0.086813
Base Alloy Total				0.403973	98.530000	42.768379
Lead Frame	Pure metal layer	Nickel (Ni)	7440-02-0	0.005207	1.270000	0.551262
Pre-Plating 1 Total				0.005207	1.270000	0.551262
Lead Frame	Pure metal layer	Palladium (Pd)	7440-05-3	0.000697	0.170000	0.073791
Pre-Plating 2 Total				0.000697	0.170000	0.073791
Lead Frame	Pure metal layer	Gold (Au)	7440-57-5	0.000123	0.030000	0.013022
Pre-Plating 3 Total				0.000123	0.030000	0.013022
Lead Frame Total				0.410000	100.000000	43.406454
Mould Compound	Filler	Silica fused	60676-86-0	0.270000	60.000000	28.584738

Material	Mat. Group	Substance	CAS No.	Mass / mg	Mass-% of Material	Mass-% of Part
Mould Compound	Filler	Silica	7631-86-9	0.103500	23.000000	10.957483
Mould Compound	Polymer	Epoxy resin system		0.031500	7.000000	3.334886
Mould Compound	Polymer	Phenolic resin		0.027000	6.000000	2.858474
Mould Compound	Flame retardant	Aluminium hydroxide (Al(OH)3)	21645-51-2	0.013500	3.000000	1.429237
Mould Compound	Ion trapping agent	Bismuth (Bi)	7440-69-9	0.002250	0.500000	0.238206
Mould Compound	Pigment	Carbon black	1333-86-4	0.002250	0.500000	0.238206
Mould Compound Total				0.450000	100.000000	47.641230
Post-Plating	Tin solder	Tin (Sn)	7440-31-5	0.019988	99.940000	2.116117
Post-Plating	Impurity	Non-declarable		0.000011	0.055500	0.001165
Post-Plating	Impurity	Lead (Pb)	7439-92-1	0.000001	0.004500	0.000106
Post-Plating Total				0.020000	100.000000	2.117388
Wire	Pure metal	Gold (Au)	7440-57-5	0.004560	99.990000	0.482764
Wire	Impurity	Non-declarable		0.000000	0.010000	0.000000
Wire Total				0.004560	100.000000	0.482764
PZU6.8B2L Total				0.944560	100.000000	100.000000

部件名称 Material	有毒或有害物质和元素 (Toxic or hazardous substances and elements)					
	铅 (Pb)	镉 (Cd)	汞 (Hg)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
胶黏剂 (Adhesive)	○	○	○	○	○	○
半导体芯片 (Die)	○	○	○	○	○	○
基底合金 (Base Alloy)	○	○	○	○	○	○
预镀层1 (Pre-Plating 1)	○	○	○	○	○	○
预镀层2 (Pre-Plating 2)	○	○	○	○	○	○
预镀层3 (Pre-Plating 3)	○	○	○	○	○	○
模封料 (Mould Compound)	○	○	○	○	○	○
后镀层 (Post-Plating)	○	○	○	○	○	○
导线 (Wire)	○	○	○	○	○	○

表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下

○ Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求

× Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

该半导体产品具有无限期的环保使用期限 (EFUP) 。

This semiconductor product has an indefinite environmental friendly use period (EFUP).

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