

Full Material Declaration for PZU6.8B2A

Date	2025-03-21 14:59:52 CET+0100
Package	SOD323 (SOD2): 1.1 mm × 1.25 mm × 1.7 mm
Description	Single Zener diodes
Datasheet	https://assets.nexperia.com/documents/data-sheet/PZUXBA_SER.pdf
OPNs	934062791115: PZU6.8B2A,115 (RFS), MSL 1
Automotive-qualified	No
UL-94	https://iq.ulprospector.com/en/profile?e=574821



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 7439-92-1: 94 ppm; substance 1333-86-4: 1948 ppm;
IEC 62474	Contains IEC 62474 substance(s) [at the article level]: substance 7439-92-1: 94 ppm; substance 1333-86-4: 1948 ppm;
Precious Metals	Contains precious metals [Ag, Au, Pd, Pt; at the article level]: substance 7440-22-4: 6295 ppm;
GADSL	Contains 'Global Automotive Declarable Substances List' (GADSL) substances: substance 7440-50-8: 295472 ppm; substance 7439-92-1: 94 ppm; substance 7440-22-4: 6295 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
Die	Doped silicon	Silicon (Si)	7440-21-3	0.030000	100.000000	0.726761
Die Total				0.030000	100.000000	0.726761
Lead Frame	Copper alloy	Copper (Cu)	7440-50-8	1.216512	95.040000	29.470453
Lead Frame	Copper alloy	Iron (Fe)	7439-89-6	0.032640	2.550000	0.790716
Lead Frame	Copper alloy	Zinc (Zn)	7440-66-6	0.002560	0.200000	0.062017
Lead Frame	Copper alloy	Phosphorus (P)	7723-14-0	0.001920	0.150000	0.046513
Lead Frame	Copper alloy	Lead (Pb)	7439-92-1	0.000384	0.030000	0.009302
<i>Base Alloy Total</i>				<i>1.254016</i>	<i>97.970000</i>	<i>30.379001</i>
Lead Frame	Pure metal layer	Silver (Ag)	7440-22-4	0.025984	2.030000	0.629472
<i>Pre-Plating Total</i>				<i>0.025984</i>	<i>2.030000</i>	<i>0.629472</i>
Lead Frame Total				1.280000	100.000000	31.008473
Mould Compound	Filler	Silica fused	60676-86-0	2.013734	75.100000	48.783450
Mould Compound	Polymer	o-Cresol-epichlorohydrin-formaldehyde copolymer	29690-82-2	0.469246	17.500000	11.367658
Mould Compound	Polymer	Formaldehyde-phenol copolymer	9003-35-4	0.190380	7.100000	4.612026
Mould Compound	Pigment	Carbon black	1333-86-4	0.008044	0.300000	0.194869
Mould Compound Total				2.681404	100.000000	64.958003
Post-Plating	Tin solder	Tin (Sn)	7440-31-5	0.133254	99.940000	3.228127
Post-Plating	Impurity	Non-declarable		0.000074	0.055500	0.001793
Post-Plating	Impurity	Lead (Pb)	7439-92-1	0.000006	0.004500	0.000145
Post-Plating Total				0.133334	100.000000	3.230065

Material	Mat. Group	Substance	CAS No.	Mass / mg	Mass-% of Material	Mass-% of Part
Wire	Pure metal	Copper (Cu)	7440-50-8	0.003166	100.000000	0.076698
Wire Total				0.003166	100.000000	0.076698
PZU6.8B2A Total				4.127904	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)
半导体芯片 (Die)	○	○	○	○	○	○
基底合金 (Base Alloy)	○	○	○	○	○	○
预镀层 (Pre-Plating)	○	○	○	○	○	○
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).

All information in this document is furnished for exploratory or indicative purposes only. All information in this document is believed to be accurate and reliable. However, Nexperia 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. Nexperia may make changes to information published in this document at any time and without notice. Minor deviations may occur in the products from different manufacturing location. This document supersedes and replaces all information supplied prior to the publication hereof. Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.