

Part Number: **BZT52CxxxxT-7**

Weight (mg): 1.450

Element	Material Group	Materials	CAS (if applicable)	Average mass homogeneous Material(%)	Percent of whole (%)	Mass (mg)	ppm Homogeneous Material	ppm overall
Die,Zener	Doped silicon	Doped silicon *	7440-21-3	100.00%	4.460	0.065	1000000	44601
SOD-523 leadframe	Alloy 42	Fe	7439-89-6	57.65%	40.169	0.583	576500	231573
		Ni	7440-02-0	41.00%			410000	164692
		Mn	7439-96-5	0.60%			6000	2410
		Cr(not Cr 6+)	7440-47-3	0.10%			1000	402
		Co	7440-48-4	0.50%			5000	2008
		Si	7440-21-3	0.15%			1500	603
	Pure silver	Ag	7440-22-4	100.00%			1.508	0.022
Bonding wire	0.7 mil	Au	7440-57-5	100.00%	0.333	0.005	1000000	3329
Molding compound	CEL-1702HF9	SiO2	60676-86-0	87.30%	51.553	0.748	873000	450062
		Epoxy Resin	29690-82-2	5.00%			50000	25777
		Phenol Resin	26834-02-6	5.00%			50000	25777
		Aromatic poly-phosphate	----	2.50%			25000	12888
		C	1333-86-4	0.20%			2000	1031
Tin solder	Pure Tin	Sn	7440-31-5	100.00%	1.977	0.029	1000000	19772
					100.00	1.450		1000000

Tolerance ±10%

This data is based on information provided by our suppliers. We believe it to be correct but do not routinely validate it by measurement. It is for guidance only and Diodes Inc. does not guarantee its absolute accuracy or completeness

* The Silicon Chip is doped at atomic levels with trace amounts of elements that may include Phosphorus, Boron, Arsenic, and other elements. Metalization may include Titanium, Nickel, Aluminum, Silver or Gold. These substances are not reported where their concentration is less than the minimum reportable level per the guidelines specified in the Tables of EIA JIG-101, [Material Composition Declaration for Electronic Products](#).

This product or product family does not contain any of the following substances except as CURRENTLY exempted by ELV II, RoHS & RoHS II and reported above:

Antimony compounds	Organic tin compounds
Asbestos	Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)
Azo compounds	Ozone Depleting Substances - Class II (HCFCs)
Cadmium and cadmium compounds	Perfluorooctane Sulphonate (PFOS) or related compounds
Certain Shortchain Chlorinated Paraffins	Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) including DecaBDE
Chlorinated organic compounds	Polychlorinated Biphenyls (PCBs)
Halogens	Polychlorinated Naphthalenes (> 3 chlorine atoms)
Hexavalent chromium compounds	Radioactive Substances
Lead and lead compounds	Tributyl Tin (TBT) and Triphenyl Tin (TPT)
Mercury and mercury compounds	Tributyl Tin Oxide (TBTO)

This product or product family does not contain any chemicals designated by the European Chemicals Agency (ECHA) as Substances of Very High Concern (SVHCs) under REACH. Please check the document at http://www.diodes.com/files/products_lead_free/RoHS_Product_List.pdf for the current compliance status.