

TL062SG-13, TL072SG-13, TL082SG-13

Part Number: TL0x2SG p = package designator See Data Sheet Weight (mg): 74.5228

Element	Material Group	Materials	CAS (if applicable)	Average mass homogeneous Materal(%)		Mass (mg)	ppm Homogeneous Material	ppm overall
Chip	Silicon w/Metal	Doped Silicon*	7440-21-3	100.00%	1.85	1.3776	1000000	18486
Leadframe	CDA-194	Cu	7440-50-8	97.40%	52.37	39.0286	974000	510097
		Fe	7439-89-6	2.40%			24000	12569
		Р	7723-14-0	0.08%			800	419
		Zn	7440-66-6	0.12%			1200	628
	Silver	Ag	7440-22-4	100.00%	0.96	0.714	1000000	9581
Bond Wire	Gold Wire	Gold	7440-57-5	100.00%	0.36	0.2661	1000000	3571
Encapsulation	EME-G600	SiO2	60676-86-0	87.45%	41.46	30.895	874500	362542
		Epoxy Resin		5.00%			50000	20729
		Phenol Resin		5.00%			50000	20729
		Cresol Novolac	29690-82-2	2.00%			20000	8291
		С	1333-86-4	0.50%			5000	2073
		Bismuth/Bismuth compound		0.05%			500	207
Die Attach Epoxy	QMI519	Ag	7440-22-4	80.00%	0.73	0.5421	800000	5819
		Acrylate		15.84%			158449	1153
		Bismaleimide resin		3.00%			30000	218
		Polymer of polybutadiene and anlydride		1.00%			10000	73
		palladium compound		0.15%			1500	11
		2,6-Di-tert-butyl-p-cresol	128-37-0	0.01%			50	0
		Hydroquinone	123-31-9	0.00%			1	0
Tin solder	Pure Tin	Sn	7440-31-5	100.00%	2.28	1.6994	1000000	22804
				Total	100.00	74.5228		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

Asbestos Antimony Compounds Azo compounds Cadmium and cadmium compounds Certain Shortchain Chlorinated Paraffins Chlorinated organic compounds

Dimethyl fumarate

Hexavalent chromium compounds Lead and lead compounds Mercury and mercury compounds

REACH SVHCs and other Substances of Concern:

Halogens

Anthracene 4,4'- Diaminodiphenylmethane

Dibutyl phthalate Cyclododecane Cobalt dichloride Diarsenic pentaoxide Diarsenic trioxide Sodium dichromate. dihvdrate

Beryllium, Beryllium Alloys and Compounds

Hydrazine Tetrachloroethylene Toluene Diisocyanate Organic tin compounds

Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)

Ozone Depleting Substances - Class II (HCFCs)
Perfluorooctane Sulphonate (PFOS) or related compounds

Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) including DecaBDI Polychlorinated Biphenyls (PCBs)
Polychlorinated Naphthalenes (> 3 chlorine atoms)

Radioactive Substances

Red Phosphorous Tributyl Tin (TBT) and Triphenyl Tin (TPT)

Tributyl Tin Oxide (TBTO)

5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) Bis (2-ethyl(hexyl)phthalate) (DEHP)

Hexabromocyclododecane (HBCDD)
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)

Bis(tributyltin)oxide Lead hydrogen arsenate Triethyl arsenate Benzyl butyl phthalate

Methylene Chloride Methyl Ethyl Ketone **Xvlenes**

^{*} 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.