

Type number	Package	Package description	Total product weight
PNS40010ER	SOD123W	SOD2	17.13000 mg

12NC	Version	Pb-free soldering			Pb soldering			Number of processing cycles	Assembly site	RHF-indicator	
		MSL	PPT	MPPT	MSL	PPT	MPPT				
934066627115	6	1	260	30 s	1	235	20 s	3	Seremban, Malaysia; D-22529 HAMBURG, Germany	IMG	

Subpart	Material group	Substances	CAS number	Mass(mg)	Mass(%) of subpart	Mass(%) of total product
Die	Doped silicon	Silicon (Si)	7440-21-3	0.78000	100.00000	4.55342
		subTotal		0.78000	100.00000	4.55342
Clip	Copper alloy	Copper (Cu)	7440-50-8	3.68520	99.87000	21.51315
		Iron (Fe)	7439-89-6	0.00369	0.10000	0.02154
		Misc. Phosphor compounds (generic)	7723-14-0	0.00111	0.03000	0.00646
		subTotal		3.69000	100.00000	21.54115
Lead Frame	Copper alloy	Copper (Cu)	7440-50-8	5.41567	98.11000	31.61513
		Iron (Fe)	7439-89-6	0.00552	0.10000	0.03222
		Misc. Phosphor compounds (generic)	7723-14-0	0.00166	0.03000	0.00967
	Pure metal layer	Silver (Ag)	7440-22-4	0.09715	1.76000	0.56715
		subTotal		5.52000	100.00000	32.22417
Mould Compound	Filler	Silica fused	60676-86-0	4.45880	71.00000	26.02919
	Pigment	Carbon black	1333-86-4	0.01884	0.30000	0.10998
	Polymer	Epichlorohydrin/o-Cresol/Formaldehyde polymer (generic)	29690-82-2	1.23716	19.70000	7.22218
		Phenolic resin	Proprietary	0.56520	9.00000	3.29947
		subTotal		6.28000	100.00000	36.66082
Post-Plating	Impurity	Antimony (Sb)	7440-36-0	0.00000	0.00300	0.00002
		Bismuth (Bi)	7440-69-9	0.00000	0.00100	0.00001
		Copper (Cu)	7440-50-8	0.00000	0.00100	0.00001
		Lead (Pb)	7439-92-1	0.00001	0.00500	0.00004
	Tin solder	Tin (Sn)	7440-31-5	0.13999	99.99000	0.81720
		subTotal		0.14000	100.00000	0.81728
Solder Paste	Lead alloy	Lead (Pb)	7439-92-1	0.66600	92.50000	3.88792
	Silver alloy	Silver (Ag)	7440-22-4	0.01800	2.50000	0.10508
	Tin alloy	Tin (Sn)	7440-31-5	0.03600	5.00000	0.21016
		subTotal		0.72000	100.00000	4.20316

Note(s):

1) This is a generic description of the substance used as the actual composition of the substances are either considered proprietary or no official CAS number is available. If a CAS number is given, it is the closest match available.

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