



## Material Composition Declaration

### Package Information

Package	Package Weight (mg)	Terminal Finish	MSL Rating
SOD-123	10	Matte Tin (Sn)	1

### Product Group

Type No.	Description
SD101AW – SD101CW	Diode Schottky 15mA 40V – 60V
1N5711W	Diode Schottky 15mA 70V
BAT42W – BAT43W	Diode Schottky 200mA 30V
MMSD301	Diode Schottky 200mA 30V
MMSD701	Diode Schottky 200mA 70V
SD103AW – SD103CW	Diode Schottky 350mA 20V – 40V
SS0520 – SS0540	Diode Schottky 500mA 20V – 40V
SS1040	Diode Schottky 1000mA 40V
1N4148W	Diode Switching 150mA 75V
1N4151W	Diode Switching 150mA 75V
BAV16W	Diode Switching 150mA 75V
1N4150W	Diode Switching 200mA 50V
MMSD914	Diode Switching 200mA 100V
MMSD4148	Diode Switching 200mA 100V
BAV19W – BAV21W	Diode Switching 200mA 120V – 250V
MMSD103	Diode Switching 200mA 250V
1N4448W	Diode Switching 250mA 75V
BZT52B2V4 – BZT52B51	Diode Zener 500mW
BZT52C2V0 – BZT52C51	Diode Zener 500mW
MMSZ4681 – MMSZ4717	Diode Zener 500mW
MMSZ5221B – MMSZ5262B	Diode Zener 500mW

Component	Material	Substance	CAS No.	Material Mass (%)	Material Mass (mg)	Component Mass (%)	Component Mass (mg)	PPM
Die	Doped Silicon*	Si	7440-21-3	100.00	0.38	3.83	0.38	38000
Wire Bond	Gold	Au	7440-57-5	100.00	0.03	0.31	0.03	3000
Leadframe	Ferrous Alloy	Fe	7439-89-6	56.40	1.58	28.07	2.81	158484
		Ni	7440-02-0	42.00	1.18			118020
		Mn	7439-96-5	0.80	0.02			2248
		Co	7440-48-4	0.50	0.01			1405
		Si	7440-21-3	0.30	0.01			843
Die Bond	Silver Silicone	Ag	7440-22-4	80.00	0.10	1.15	0.12	9600
		Bisphenol F	28064-14-4	15.00	0.02			1800
		Glycidyl neodeconate	26761-45-5	5.00	0.01			600
Plating	Matte Tin	Sn	7440-31-5	100.00	0.20	2.00	0.20	20000
Encapsulation	EMC	Silica	7631-86-9	79.00	5.10	64.64	6.46	510340
		Epoxy Resin	29690-82-2	20.00	1.29			129200
		Carbon Black	1333-86-4	1.00	0.06			6460

Tolerance ±10%

\*Dopant and metallization of the silicon die are not reported in this statement where their concentration is less than the minimum reportable level per EIA JIG-101.

Data disclosed herewith is approximate and is based on information from suppliers surveys, Material Safety Datasheet, engineering calculations and measurements. Won-Top Electronics(WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. WTE reserves the right to change any or all information herein without further notice.

## RoHS Declaration

The European Parliament and of the Council on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronics Equipment (RoHS) directive restricts the concentration of Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBD) to 0.1%(1000 PPM) and restricts the concentration of Cadmium (Cd) to 0.01%(100 PPM) in homogeneous materials of electronics products.

The product group listed above and the homogenous materials are compliant with the Directive 2011/65/EU. WTE warrants that all its packing, components and/or products supplied to the Customer and/or its affiliated companies or designated contractors do not contain these hazardous substances in quantity levels higher than or equal to the thresholds to this directive.

### Exemptions as declared for the directive are:

7(a) Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).

7(c)-I Lead in glass (applicable for glass passivated silicon die).