

Part Number: **MMBZ52xxBTS-(p)-F (Date Code 0740+)** p = package designator  
Weight (mg): 6.0218 See Data Sheet

x= 21, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 45, 46, 48, 50, 51, 52,54, 55, 56, 57, 58, 59

Element	Material Group	Materials	CAS (if applicable)	Average mass homogeneous Material(%)	Percent of whole (%)	Mass (mg)	ppm Homogeneous Material	ppm overall
Chip	Silicon w/Metal	Doped Silicon *	7440-21-3	100.00%	2.84	0.1712	1000000	28430
Leadframe	Alloy 42	Fe	7439-89-6	57.65%	37.27	2.2441	576500	214840
		Ni	7440-02-0	41.00%			410000	152792
		Mn	7439-96-5	0.60%			6000	2236
		Cr(not Cr 6+)	7440-47-3	0.10%			1000	373
		Co	7440-48-4	0.50%			5000	1863
		Si	7440-21-3	0.15%			1500	559
Leadframe Plating	Silver	Silver	7440-22-4	100.00%	1.17	0.0702	1000000	11658
Bond Wire	Gold Wire	Gold	7440-57-5	100.00%	0.44	0.0267	1000000	4434
Encapsulation	KTMC-1050G	SiO2	60676-86-0	69.00%	56.90	3.4264	690000	392610
		Epoxy Resin	29690-82-2	14.00%			140000	79660
		Phenol Resin	9003-35-4	7.00%			70000	39830
		Mg(OH)2	1309-42-8	8.00%			80000	45520
		C	1333-86-4	0.20%			2000	1138
		others	----	1.80%			18000	10242
Lead Plating Finish	Matte Tin	Tin	7440-31-5	100.00%	1.38	0.0832	1000000	13816
<b>Total</b>					<b>100.00</b>	<b>6.0218</b>		<b>1000000</b>

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 and RoHS and reported above:

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|--|---|
| 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 <b>DecaBDE</b> |
| Chlorinated organic compounds            | Polychlorinated Biphenyls (PCBs)  |
| Hexavalent chromium compounds            | Polychlorinated Naphthalenes (> 3 chlorine atoms)   |
| Lead and lead compounds                  | Radioactive Substances  |
| Mercury and mercury compounds            | Tributyl Tin (TBT) and Triphenyl Tin (TPT)  |
| Organic tin compounds                    | Tributyl Tin Oxide (TBTO)   |