

Part Number: **BAVxxW-(p)-F (Date Code 0832+)**
Weight (mg): 8.2601

p = package designator
See Data Sheet

X= 16, 19, 20, 21

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%	1.02	0.084	1000000	10169
Leadframe	Alloy 42	Fe	7439-89-6	57.65%	29.58	2.443	576500	170526
		Ni	7440-02-0	41.00%			410000	121276
		Mn	7439-96-5	0.60%			6000	1775
		Cr(not Cr 6+)	7440-47-3	0.10%			1000	296
		Co	7440-48-4	0.50%			5000	1479
		Si	7440-21-3	0.15%			1500	444
Leadframe Plating	Silver	Silver	7440-22-4	100.00%	1.25	0.103	1000000	12518
Bond Wire	Gold Wire	Gold	7440-57-5	100.00%	0.20	0.016	1000000	1985
Encapsulation	KTMC-1050G	SiO2	60676-86-0	69.00%	67.24	5.554	690000	463957
		Epoxy Resin	29690-82-2	14.00%			140000	94136
		Phenol Resin	9003-35-4	7.00%			70000	47068
		Mg(OH)2	1309-42-8	8.00%			80000	53792
		C	1333-86-4	0.20%			2000	1345
		others	----	1.80%			18000	12103
Lead Plating Finish	Matte Tin	Tin	7440-31-5	100.00%	0.71	0.059	1000000	7131
Total					100.00	8.260		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 and RoHS and reported above:

- | | |
|--|---|
| 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) |
| 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) |