Diodes Inc. Material Data Sheet
Rev: April 2009

Part Numbers: **DMMT3906W-p-F MMDT2227-p-F MMDT4126-p-F, MMDT4146-p-F MMDT4401-p-F MMDT4413-p-F** p = package designator

Weight (mg): 6.3682

Element	Material Group	Materials	CAS (if applicable)	Average mass homogeneous Materal(%)	Percent of whole (%)	Mass (mg)	ppm Homogeneous Material	ppm overall
Chip	Silicon w/Metal	Doped Silicon*	7440-21-3	100.00%	1.47	0.0933	1000000	14651
Leadframe	Alloy 42	Fe	7439-89-6	57.65%	30.84	1.9641	576500	177806
		Ni	7440-02-0	41.00%			410000	126453
		Mn	7439-96-5	0.60%			6000	1851
		Cr(not Cr 6+)	7440-47-3	0.10%			1000	308
		Co	7440-48-4	0.50%			5000	1542
		Si	7440-21-3	0.15%			1500	463
Leadframe Plating	Silver	Silver	7440-22-4	100.00%	0.95	0.0606	1000000	9516
Bond Wire	Copper Wire	Cu	7440-50-8	100.00%	0.29	0.0182	1000000	2858
Encapsulation	CEL-1702HF-9	Silicon dioxide	14808-60-7	87.30%	60.23	3.8355	873000	525799
		Basic Duromer: Epoxy resin (Compound of a polymeric network)	129915-35-1	5.00%			50000	30114
		Basic Duromer:Phenolic resin (Compound of polymeric network)	26834-02-6	5.00%			50000	30114
		Misc.	system	2.50%			25000	15057
		Carbon black	1333-86-4	0.20%			2000	1205
Lead Plating Finish	Matte Tin	Tin	7440-31-5	100.00%	6.23	0.3965	1000000	62262
				Total	100.00	6.3682		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
Antimony Compounds
Azo compounds
Cadmium and cadmium compounds
Certain Shortchain Chlorinated Paraffins
Chlorinated organic compounds
Dimethyl fumarate
Halogens (Bromine, Chlorine, Fluorine, Iodine and Astatine)
Hexavalent chromium compounds
Lead and lead compounds
Mercury and mercury compounds
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 DecaBDE
Polychlorinated Biphenyls (PCBs)
Polychlorinated Naphthalenes (> 3 chlorine atoms)
Radioactive Substances
Red Phosphorous
Tributyl Tin (TBT) and Triphenyl Tin (TPT)
Tributyl Tin Oxide (TBTO)

REACH SVHCs: