

Material Declaration Sheet Vishay General Semiconductor - PDD

30/Jul/19 Date

Part / Product Family Details								
Vishay Part Number	RoHS Compliance Status			3rd Party Lab ICP Test Report Available				
MBRF10H9OCT-(H)E3 to MBRF10H10OCT-(H)E3 MBBF12H46CT-(H)E3 to MBRF20H6OCT-(H)E3 MBRF20H35CT-(H)E3 to MBRF20H6OCT-(H)E3 MBRF20H9OCT-(H)E3 to MBRF20H10OCT-(H)E3 MBRF20H9OCT-(H)E3 to MBRF20H10OCT-(H)E3 MBRF25H35CT-(H)E3 to MBRF23H6OCT-(H)E3 MBRF30H35CT-(H)E3 to MBRF23H6OCT-(H)E3 MBRF30H3OCT-(H)E3 to MBRF30H0OCT-(H)E3 MBRF30H3OCT-(H)E3 to MBRF156OCT-(H)E3 MBRF30H3OCT-(H)E3 to MBRF20H0OCT-(H)E3 MBRF203SCT-(H)E3 to MBRF20H0OCT-(H)E3 MBRF203CT-(H)E3 to MBRF20T-(H)E3 MBRF203CT-(H)E3 to MBRF20T-(H)E3 MBRF203CT-(H)E3 to MBRF20FT-(H)E3 MBRF203CT-(H)E3 to MBRF20FT-(H)E3 SBLF25L2OCT-(H)E3 to SBLF25L3OCT-(H)E3 SBLF103OCT-(H)E3 to SBLF164OCT-(H)E3 SBLF103OCT-(H)E3 to SBLF164OCT-(H)E3 SBLF163OCT-(H)E3 to SBLF164OCT-(H)E3 SBLF163OCT-(H)E3 to SBLF164OCT-(H)E3 SBLF163OCT-(H)E3 to SBLF164OCT-(H)E3 SBLF163OCT-(H)E3 to SBLF164OCT-(H)E3	YES WITH EXEMPTION	01-12-2004	1. 99	N/A	Yes	China	0ne	

chnical Information: refer to

Terminal Plating / Grid Array Material	Terminal Base Alloy	JESD-97 Pb-Free Material Code Marking	T_CTD_20D MCI	Reflow	Keflow	Reflow	Soldering
			Rating	Peak Process	Maximum	Max. Time at Peak	Compatibility
				Body Temperature	number of cycles	Temperature (sec)	(SnPb/Pb-Free)

Homogenous Material Name	Material Classification	Substance Name	CAS number	Weight of Substance (gm)	With respect to Homogenous Material		% with respect to Total Product	RoHS Exemptions Used
					%	ppm	Weight	
Chip	Electronics (e.g. pc boards, displays)	Silicon and others (business secret)	-	0. 02069	100.00	1000000	1.04	
Lead Frame	Copper (e.g. copper amounts in cable harnesses	Copper	7440-50-8	1. 03080	100.00	1000000	51.80	
Bridge Frame	Copper alloys	Copper	7440-50-8	0.03470	99.85	998501	1.74	
		Nickel	7440-02-0	0.00005	0.15	1499	0.00	
Solder 88	Other special metals	Lead	7439-92-1	0.00885	88. 00	880000	0.44	Exemption No:-7 a
		Tin	7440-31-5	0.00101	10.00	100000	0.05	
		Silver	7440-22-4	0.00020	2.00	20000	0.01	
Encapsulation	Other duromers	Quartz (SiO2)	14808-60-7	0. 62272	70. 15	701500	31. 29	
		Epichlorohydrin, o-cresol, formalde polymen	29690-82-2	0. 14239	16.04	160400	7. 16	
		Phenol-formaldehyde resin	9003-35-4	0. 10661	12.01	120100	5. 36	
		Antimony oxide (Sb2-03)	1309-64-4	0.00897	1.01	10100	0.45	
		Carbon-Black	1333-86-4	0.00222	0.25	2500	0.11	
		Additive & know-how	-	0.00470	0.53	5300	0.24	
Surface finish	Other special metals	Tin	7440-31-5	0.00604	100.00	1000000	0.30	
Marking	Electronics (e.g. pc boards, displays)	Synthetic resin	53192-18-0	0.00005	65. 00	650000	0.00	
		Starting agent	21245-01-2	0.00001	10.00	100000	0.00	
		Dye	7429-90-5	0.00001	15.00	150000	0.00	
		Additive	947-19-3	0.00000	5.00	50000	0.00	
		Silicon dioxide	112945-52-5	0.00000	5.00	50000	0.00	

EU-RoHS Directive- MCV of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated 2015/863/EU Diphenyl Ethers (PBDE) and MCV of 0.01% by mass cadmium ,Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

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

Note :- (i) All information is based on data received from our vendors & subjected to change without prior notice. (ii) Substance weight are derived from MSDS.



