



Material Composition Declaration

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This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.

1752-2 1.1

ICP Web Site for information on IPC-1752 Standard http://www.ipc.org/ContentPage.aspx?pageid=M aterials-Declaration

Form Type*
Distribute
Class

Declaration Class*
Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg
Infomation

Supplier Information			
Company Name * Fairchild Semiconductor	Company Unique ID 00-489-5751	Unique ID Authority Dun & Bradstreet	Response Date* Sep 26, 2014 03:07 AM
Contact Name * David Lancaster	Title - Contact Product Ecology	Phone - Contact * 801-562-7455	Email - Contact * david.lancaster@fairchildsemi.com
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Requester Item Num	nber Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
MBR3045PT	MBR3045PT	TO247-3.csv			PANJIT	5.456725	g	Each
							_	
Manufacturing P	rocess Information							
Terminal Finish	Base Alloy	J-STD-020 MSL Rating	Peak Process Boo	ly Temperature	Max Time at F	eak Temperature	No Re	flow cycles
Sn	Copper Alloy	NA	Not App	olicable			Not A	pplicable

^{*} Required Field

RoHS Material Composition Declaration

Declaration Type * Custom

RoHS Directive 2011/65/EU

RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

This document is Fairchild Semiconductor's statement regarding the directive 2011/65/EU of the European Parliament and of the council of 8 June 2011on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Recast). The content of this document is based upon information collected from Fairchild Semiconductor supply chain, manufacturing facilities and affiliates worldwide.

The FSC part number listed above and the homogenous materials in the product are compliant with the Directive 2011/65/EU. Fairchild has implemented systems to ensure our products are compliant to environmental regulations and laws worldwide. However, not all materials in Fairchild's products may have been independently verified regarding substance content. In the event of any issues arising from information in this document, the warranty section of Fairchild's standard terms and conditions of sale shall apply, unless alternate contracts have been agreed upon in writing by both parties.

Note: The substance content disclosed herewith is approximate and is based on various methods including, engineering calculations, supplier surveys, Material Safety Data Sheets, analytical measurements. Fairchild may update this document without notification. This statement may not include information regarding the miniscule quantities of dopant and metal materials in the electrical devices contained within the finished product. CAS numbers listed for Resin substances are generic and may contain alternate substances of similar composition.

RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions Supplier Acceptance * Accepted

Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.

Exemption List Version EL-2011/534/EU

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

Declaration Signature

Supplier Signature

DAVID LANCASTER - PRODUCT ECOLOGY MANAGER

David Loneasto

Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name TO247-3.csv

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	32	Supplier		Silicon	32	7440-21-3	5864
Die Attach	Other Nonferrous metals & alloys	35.025	A	Lead/Lead Compounds	Lead	32.4	7439-92-1	5938
			Supplier		Silver	0.875	7440-22-4	160
			Supplier		Tin	1.75	7440-31-5	321
Encapsulation	Thermoplastics	1739.8	В	Antimony/Antimony Compounds	y Antimony Trioxide	34.9	1309-64-4	6396
			В	Brominated Flame Retardants (other than PBCs or PBDEs)	Bromine Resin	20.9	6386-73-8	3830
			Supplier		Carbon Black	17.4	1333-86-4	3189
			Supplier		Epoxy Resin	284	29690-82-2	52046
			Supplier		Silica, vitreous	1382.6	60676-86-0	253375
Lead Frame	Copper & its alloys	3612.9	Supplier		Copper	3490	7440-50-8	639578
			Supplier		Iron	2.1	7439-89-6	385
			В	Nickel (external applications only)	Nickel	118	7440-02-0	21625
			Supplier		Phosphorus	1.05	7723-14-0	192
			Supplier		Zinc	1.75	7440-66-6	321
Plating	Other Nonferrous metals & alloys	31	Supplier		Tin	31	7440-31-5	5681
Wire Bond	Aluminum & its alloys	6	Supplier		Aluminum	6	7429-90-5	1100