PART INFORMATION	
Mfg Item Number	A2I25H060NR1
Mfg Item Name	TO-270 WB-17

SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-05-29
Response Document ID	00GRK04449D001A1.11
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
Contact Phone	1-800-521-6274
Contact Email	support@freescale.com
Authorized Representative	Daniel Binyon
Representative Title	EPP Customer Response
Representative Phone	512-895-3406
Representative Email	eppanlst@freescale.com
URL for Additional Information	www.freescale.com

DECLARATION	
EU RoHS	Yes
Pb Free	No
HalogenFree	Yes
Plating Indicator	e3
EU RoHS Exemption(s)	7a

MANUFACTURING	
Mfg Item Number	A2I25H060NR1
Mfg Item Name	TO-270 WB-17
Version	ALL
Weight	1.580200
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
Peak Processing Temperature	260 C
Max Time at Peak Temperature	40 seconds
Number of Processing Cycles	3

RoHS	
RoHS Directive	2011/65/EU
RoHS Definition	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) of 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 of Cadmium
RoHS Legal Definition	Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part(s) identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a RoHS restricted substance) in excess of the applicable quantity limit identified below. If a homogeneous material within the part(s) contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s),the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Suppliers liability and the Companys remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Suppliers Standard Terms and Conditions of Sale applicable to such part(s) shall apply.
RoHS Declaration	4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemption List Version	2012/51/EU
Exemptions in this part	7a:Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)
List of Freescale Accepted Exemptions	6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
	6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight
	6(c) : Copper alloy containing up to 4% lead by weight
	7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)
	7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications
	7(c)-I : Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
	7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher
	7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC
	7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors
	15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Solder Die Attach	0.0122				7a		g				
Solder Die Attach		Lead/Lead Compounds	Lead	7439-92-1		0.011651	g	955000	95.5	7373	0.7373
Solder Die Attach		Metals	Silver, metal	7440-22-4		0.000305	g	25000	2.5	193	0.0193
Solder Die Attach		Metals	Tin, metal	7440-31-5		0.000244	g	20000	2	154	0.0154
Bonding Wire, Aluminum	0.0002						g				
Bonding Wire, Aluminum		Metals	Aluminum, metal	7429-90-5		0.0002	g	1000000	100	126	0.0126
Lead Frame Plating	0.0095						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.0000019	g	200	0.02	1	0.0001
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.0094981	g	999800	99.98	6010	0.601
Die Encapsulant	0.5438						g				
Die Encapsulant		Solvents, additives, and other materials	Benzophenonetetracarboxylic Acid Dianhydride	2421-28-5		0.0406969	g	74838	7.4838	25754	2.5754
Die Encapsulant		Plastics/polymers	Poly[(o-cresyl glycidyl ether)-co-formaldehyde]	29690-82-2		0.01627865	g	29935	2.9935	10301	1.0301
Die Encapsulant		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.01627865	g	29935	2.9935	10301	1.0301
Die Encapsulant		Metals	Magnesium, metal	7439-95-4		0.00097068	g	1785	0.1785	614	0.0614
Die Encapsulant		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.00291531	g	5361	0.5361	1844	0.1844
Die Encapsulant		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.01627865	g	29935	2.9935	10301	1.0301
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.43410251	g	798276	79.8276	274713	27.4713
Die Encapsulant		Plastics/polymers	Poly[(phenyl glycidyl ether)-co-dicyclopentadiene]	119345-05-0		0.01627865	g	29935	2.9935	10301	1.0301
Epoxy Die Attach	0.0135						g				
Epoxy Die Attach		Plastics/polymers	Other Epoxy resins	-		0.00211978	g	157021	15.7021	1341	0.1341
Epoxy Die Attach		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.00027242	g	20179	2.0179	172	0.0172
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.0108	g	800000	80	6834	0.6834
Epoxy Die Attach		Plastics/polymers	Other Methacrylate compounds	-		0.0003078	g	22800	2.28	194	0.0194
Copper Lead Frame, Ni spot	0.9884						g				
Copper Lead Frame, Ni spot		Metals	Copper, metal	7440-50-8		0.95884881	g	970102	97.0102	606805	60.6805
Copper Lead Frame, Ni spot		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00184633	g	1868	0.1868	1168	0.1168
Copper Lead Frame, Ni spot		Metals	Iron, metal	7439-89-6		0.0114437	g	11578	1.1578	7241	0.7241
Copper Lead Frame, Ni spot		Lead/Lead Compounds	Lead	7439-92-1		0.00020065	g	203	0.0203	126	0.0126
Copper Lead Frame, Ni spot		Nickel (external applications only)	Nickel	7440-02-0		0.01606051	g	16249	1.6249	10163	1.0163
Silicon Semiconductor Die	0.0063						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00006426	g	10200	1.02	40	0.004
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00012471	g	19796	1.9796	78	0.0078
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00611103	g	970004	97.0004	3867	0.3867
Silicon Semiconductor Die	0.0063						g				
Silicon Semiconductor Die		Metals	Gold, metal	7440-57-5		0.00006426	g	10200	1.02	40	0.004
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00012471	g	19796	1.9796	78	0.0078
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00611103	g	970004	97.0004	3867	0.3867

LINKS	
MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX
FAQ	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/A2I25H060NR1_IPC1752_v11.xml

http://www.freescale.com/mcds/A2I25H060NR1_IPC1752A.xml