IPC ASSOCIATION CONNECTED ELECTRONICS INDUST	© Copyright 2005. II	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both le	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.								
752-21.1		IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Form Typ bitp://www.ipc.org/IPC-175x				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and Mfc Information				
upplier Info	rmation													
Company name*			Company unique ID			U	Unique ID Authority				Response Date*			
nsemi											2024-05-07			
Contact Name			Title - Contact			P	Phone - Contact*				Email - Contact*			
Product-Env-Ste	ewards		Product Enviro Compliance			ı	NA				Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			P	Phone - Representative*				Email - Representative*			
Product-Env-Stewards			Product Enviro Compliance			ľ	NA				Product-Env-Stewards@onsemi.com			
Reque	ester Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version	N	Manufacturing Site		/eight*	UOM	Unit Type
	2SA2153-TD-E		-TD-E	BIP PNP 2A 50V			2024-05-07		C	CNG		1.32	mg	Each
Ianufacturin	ng Proccess Informat	tion							·		·			
			Terminal Base Alloy J-STD-020 MSL Ra			Rating								
contai	ns Bi	C	U Alloy	1			260		C	30	second	s 3		
omments														
vel 1 - maximur	n time at peak temperatu	re during sol	dering is 10-3	30 seconds										
or more informa	ation regarding material	composition p	please refer t	o page 3										

RoHS Material Composition Declaration			Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU										
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 identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess 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 cornel to the best of its knowledges 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 paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, 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 exclusivesource of the Supplier's liability and the Company's 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 Supplier's Standard Terms and Conditions of Sale applicable to suc										
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substance	s per the definition above except for selected exemp	tions Supplier Acceptance	* Accepted						
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).										
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the required f Requester) and click on Submit Form to ha		Accepted" on the Supplier Acceptance drop-dow	n. This will display the signature area. Digita	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	astislav Drska	-En								

Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.21	mg	Supplier	Silicon (Si)	7440-21-3		0.21	mg
Die Attach Solder	0.1	mg	Supplier	Silver (Ag)	7440-22-4		0.0025	mg
			A	Lead (Pb)	7439-92-1	7a	0.0925	mg
			Supplier	Tin (Sn)	7440-31-5		0.005	mg
Lead Frame	22.4	mg	Supplier	Silver (Ag)	7440-22-4		0.0986	mg
			Supplier	Tin (Sn)	7440-31-5		0.0314	mg
			Supplier	Copper (Cu)	7440-50-8		22.2701	mg
Mold Compound-Black	27.76	mg		Brominated epoxy resin	proprietary data		0.3886	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.2492	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.2498	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2776	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		20.82	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		4.7192	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0555	mg
Plating	0.77	mg	В	Bismuth (Bi)	7440-69-9		0.0046	mg
			Supplier	Tin (Sn)	7440-31-5		0.7654	mg
Wire Bond - Au	0.08	mg	Supplier	Gold (Au)	7440-57-5		0.08	mg