IPC ASSOCIATION ELECTRONIC	© Copyright 2005	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
1752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute					Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplie	r Information														
ompany	name*	Company un	Company unique ID			Unique ID Authority					Response Date*				
nsemi												2023-06-06			
Contact N	Name	Title - Contact			P	Phone - Contact*				Email - Contact*					
?roduct-l	Env-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
uthorize	ed Representative*	Title - Representative			P	Phone - Representative*				Email - Representative*					
Product-l	Env-Stewards	Product Enviro Compliance			1	NA NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number	Requester Item Number Mfr Item		n Number Mfr Item Name			Effective Date	e Date		ring Site	V	Veight*	UOM	Unit Type	
		SD05T3G SOD-323 ZENER		TVS		2023-06-06			4	.65	mg	Each			
Ianufa	acturing Proccess Inform	nation						•							·
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD		-STD-020 MSL 1	Rating	Peak Process B		s Body Temperature Max Time at Peak		Temperatu	re Num	ber of Reflow Cyc	cles	
Matte Tin (Sn) - annealed		CU Alloy 1			260 C		30		seconds 3						
omments	S														
vel 1 - m	naximum time at peak temper	ature during so	ldering is 10-3	30 seconds											
or more	information regarding materi	ial composition	please refer to	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU RoHS Definition: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).											
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 correct 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 have provided certifications regarding their contributions to the part, 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, the terms and conditions of that agreement, including any warranty rights and/or remedies provided in 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 such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	Accepted						
Exemption: 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										
Declaration Signature											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the						

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	0.59	mg	Supplier	Silicon (Si)	7440-21-3		0.59	mg
Lead Frame	0.86	mg	В	Nickel (Ni)	7440-02-0		0.0542	mg
			Supplier	Iron (Fe)	7439-89-6		0.7422	mg
			Supplier	Copper (Cu)	7440-50-8		0.0636	mg
Mold Compound-Black	3.06		Supplier	Boron zinc hydroxide oxide	138265-88-0		0.0918	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0153	mg
			Supplier	2,4,6-triamino-1,3,5-triazine isocyanuric acid	37640-57-6		0.0918	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.448	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0306	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.2448	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.1377	mg
Plating	0.13	mg	Supplier	Tin (Sn)	7440-31-5		0.13	mg
Wire Bond - Cu	0.01	mg	Supplier	Copper (Cu)	7440-50-8		0.01	mg