ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaratio	n encor		er level mate	rials for	which the	item is an assembly e manufacturer has eclaration.	
1752-2 1.1	_	Web Site for Informat		Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneous Materia							and Mfg Informa				
Supplier Information															
Company Name *		Company Unique ID		Unique ID Au	uthority	Respo	nse Date	e *		Response Docu					
SEMTECH CORPORATION 00-847-9941				DUNS		2019-0	5-14								
Contact Name * Title - Contact				Phone - Contact *			Email - Contact *			<b>-</b> " .					
Mary Mason QA Customer Support			rt Specialis	li <b>\$805-498-2111</b>			mmason@semtech.com			Duplicate Contact -> Authorized Representative					
Authorized Representat	ive *	Title - Representative	Э	Phone - Representative *			Email - Representative *			Supplier Comments or URL for Additional Information					
Mary Mason		QA Customer Suppo	rt Speciali	<b>805-498-211</b>	1	mmas	on@sem	tech.cor	n						
Requester Item Numbe	r	Mfr Item Number		Mfr Item Name		Effective Date		Version	Manufa	cturing Site	Weight *	UC	OM	Unit Type	
		SMBJ48CA		Transient Voltage Suppressor 6			China				95	mg	]	Each	
Alternate Recommend	ation				Alternate Item C			Item Co	Comments						
Manufacturing Proce	ss Inf	formation													
Terminal Plating / Grid Array Material Terminal			Terminal Ba	ase Alloy	J-STD-020 MSL Ra	ting Peak Process Bo		ess Body	Temper	ature Max Time	Time at Peak Temperatur		Number of Reflow Cycles		
Tin (Sn)			CU Alloy		1	260			<b>260</b> C	30 seco			ids 3		
Comments  SMBJ48CA is not REAC	`H-co	mnliant product ne	r Ell Begu	ulation EC190	7/2006 to include	recen	t additio	n of SVH	IC can	didata list of su	ihetances ii	n lanus	ary 2010		

Save the fields in Import fields from a Clear all of the Lock the fields on this **Export Data** Import Data Reset Form Lock Supplier Fields fields on this form this form to a file file into this form form to prevent changes **RoHS Material Composition Declaration Declaration Type \*** Detailed Rohs Directive Rohs Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenvls (PBB). Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium 2002/95/EC Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part 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 above. If a homogeneous material within the part 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, 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 as part of that agreement, will be the sole and exclusive source 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 such part shall apply. Supplier Acceptance \* Accepted 2 - Item(s) contains RoHS restricted substances above the limits per the definition and is not under exemption **RoHS Declaration \*** 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.

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Deci	ıaratıc	n Sia	nature

Instructions:	Complete all	of the required f	ields on all pages	of this form.	Select the	"Accepted"	on the Supplier	Acceptance drop	p-down. 1	Γhis will display	the signature	e area. D	Digitally sig
the declaration	(if required by	y the Requester)	and click on Subr	mit Form to h	ave the form	returned to	o the Requester.						

Supplier Digital Signature

## **Homogeneous Material Composition Declaration for Electronic Products**

Subltem 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).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

	Item/SubItem		Homogeneous	Weight	Unit of			Level	Substance Category			Substance	CAS	Exempt	Woight	Unit of	Toler	ance	PPM
	Name		Material	weight	Measure			Levei				Substance	CAS	Exempt	weight	Measure	-	+	FFIVI
+1 -1	Dice	+M -N	Silica Compound	4.6	mg	+C -	·C	Supplier	Silica Compound	+S	-S	Si	7440-21-3		4.439	mg			47,731
						+C -	-C	A	Lead/Lead Compound	+S	-s	Lead (II) oxide	1317-36-8		0.115	mg			1,237
						+C -	-C	В	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.046	mg			495
+1 -1	Solder Paste	+M -N	High-melting poi	i 2.33	mg	+C	·c	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1	7a. Lead	2.155	mg			23,175
	-					+C -	-C	Supplier	Sn	+S	-S	Sn	7440-31-5		0.117	mg			1,253
										+S	-s	Ag	7440-22-4		0.058	mg			626
+1 -1	Lead Frame & Clip	+M -N	Copper Alloy	40.48	mg	+C -	.c	Supplier	Copper Alloy	+S	-S	Cu	7440-50-8		40.46	mg			435,05
										+S	-s	Zn	7440-66-6		0.002	mg			17
										+S	-s	Fe	7439-89-6		0.004	mg			44
										+S	-s	Р	7723-14-0		0.014	mg			148
+1 -1	Epoxy material	+M -N	(EK-1700GS)Gre	44.66	mg	+C -	.c	Supplier	(EK-1700GS)Green m	+S	-S	Silica fused	60676-86-0		35.728	mg			384,17
										+S	-s	Epoxy resin	29690-82-2		6.252	mg			67,230
										+S	-s	Phenolic resin	9003-35-4		2.903	mg			31,214
										+S	-s	Carbon black	1333-86-4		0.223	mg			2,401
+1 -1	Plating cover	+M -N	Sn plating cover	0.93	mg	+C -	.c	Supplier	Sn plating cover	+S	-S	Sn	7440-31-5		0.925	mg			9,950

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