ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoo nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	' '												
1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x							-	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa									
Supplier Information																		
Company Name * Company Unique				Unique ID Au	uthority	Response Date *			R	esponse Do	cument ID							
SEMTECH CORP.					2011-0	9-01												
Contact Name *	Title - Contact	ítle - Contact		Phone - Contact *		Email - Contact *			D !	0 1 1	Δ (1							
ROYA READER			805-389-274	Rreader@semtech.com			1	Duplicat	te Contact	-> Autho	orizea Re	epresentative						
Authorized Representati	Title - Representative		Phone - Representative *		Email - Representative *			* S	upplier Com	ments or UR	L for Add	ditional Ir	nformation					
ROYA READER				805-389-274	2	Rreade	r@semt	ech.com	n									
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date Ve		Version	Manufac	uring Site	Weight *	UC	DM	Unit Type				
SMDA05.TBT		SMDA05.TBT		Unidirectional TVS Array for Pr		· o			Malaysia	ı	76		3	Each				
Alternate Recommenda	ation				Alternate Iter			Item Com	ments	•			•					
Manufacturing Proces	ss In	formation																
Terminal Plating / Grid Array Material Terminal			Terminal B	Base Alloy J-STD-020 MSL F		ating Peak Process Bo		ess Body	Body Temperature		Max Time at Peak Temp		Number	of Reflow Cycles				
Matte Tin (Sn)			CU Alloy	,	1				260 C		30 se		3					
Comments					1							!						
SMDA05.TBT is REACH-	com	oliant product, per E	EU Regula	tion EC1907/	2006 to include r	ecent a	ddition o	f SVHC	candida	te list of su	bstances in	June 20	11					

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 this form to a file file into this form fields on 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. 1 - Item(s) does not contain RoHS restricted substances per the definition above Supplier Acceptance * Accepted **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. **Declaration Signature**

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to 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	Walah	Unit of		Laval	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
	Name		Material	Weight	Measure		Level	Substance Category			Substance	CAS				-	+	PPIVI
+1 -1	Die	+M -M	Doped Silicon	2.75	mg	+C -C	Supplier		+S	-S	Si	7440-21-3		2.75	mg			36,184
+1 -1	Leadframe	+M -M	A194	39.45	mg	+C -C	Supplier		+S	-S	Cu	7440-50-8		38.5505	mg			507,24
	-						_		+S	-s	Fe	7439-89-6		0.8403	mg			11,056
									+S	-s	Р	7723-14-0		0.008	mg			105.37
									+S	-s	Zn	7440-66-6		0.0513	mg			674.80
+1 -1	Die attach	+M -M	84-1MLIS R4	0.175	mg	+C -C	Supplier		+S	-S	Silver	7440-22-4		0.15	mg			1,957.2
	-						_		+S	-s	Epoxy resin	Proprietary		0.01	mg			115.13
									+S	-s	Aromatic Amine	Proprietary		0.018	mg			230.26
+1 -1	Wire	+M -M	Gold	0.1	mg	+C -C	Supplier		+S	-S	Au	7440-57-5		0.1	mg			1,315.6
+1 -1	Encapsulation	+M -M	EME G600	30	mg	+C -C	Supplier		+S	-S	Fused Silica	60676-86-0		26	mg			345,39
	-						_		+S	-s	Epoxy Resin	Proprietary		1.5	mg			19,736
									+S	-s	Carbon Black	1333-86-4		0.15	mg			1,973.6
									+S	-s	Epoxy cresol Novalac	29690-82-2		0.6	mg			7,894.7
									+S	-s	Phenol Resin	Proprietary		1.5	mg			19,736
+1 -1	Lead finish	+M -M	Alloy	3.5	mg	+C -C	Supplier		+S	-S	Sn	7440-31-5		3.5	mg			46,357
						+C -C	A		+S	-s	Lead	7439-92-1		0.0018	mg			24.118