



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D
<i>* : Required Field</i>			

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2018-12-19
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	Representative Title	ADG MD Champion
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement

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Legal Statement			
Supplier Acceptance *	true	Legal Declaration *	Standard

Legal Statement

Supplier certifies that it gathered the provided information and 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. 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 Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
ESDA14V2LY	AJWC*EAY14V2	A	DIODES INC.	2018-12-19
Amount		UoM	Unit type	ST ECOPACK Grade
8.70		mg	Each	ECOPACK2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte	Alloy 42		



Package Designator	Size	Nbr of instances	Shape	
DSO	2.9-1.625-1.175	6	gull wing	
Comment	SOT 23 SIMPLE DIODE			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	FALSE
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : California Prop65 list, dated 25th May 2018			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	2.93	Leadframe	336207

QueryList : REACH-27th June 2018				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	AJWC*EAY14V2					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	0.289	mg	supplier	die	Silicon (Si)	7440-21-3		0.286	mg	989583	32759
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	6944	230
				supplier	Passivation	Silicon Oxide	7631-86-9		0.001	mg	3473	115
Leadframe	Copper & its alloys	7.114	mg	supplier	alloy	Iron (Fe)	7439-89-6		4.040	mg	567894	464368
				supplier	alloy	Nickel (Ni)	7440-02-0		2.925	mg	411161	336207
				supplier	metallization	Silver (Ag)	7440-22-4		0.149	mg	20945	17126
Die attach	Other Organic Materials	0.142	mg	supplier	glue	Silver (Ag)	7440-22-4		0.106	mg	746479	12184
				supplier	glue	Bis F Epoxy Resin	28064-14-4		0.021	mg	147887	2414
				supplier	glue	1,4-bis(2,3-epoxypropoxy)butane	2425-79-8		0.011	mg	77465	1264
Bonding wires	Other inorganic materials	0.023	mg	supplier	glue	Aromatic amine	Proprietary		0.004	mg	28169	460
				supplier	wire	Copper (Cu)	7440-50-8		0.023	mg	982906	2644
				supplier	wire	Palladium (Pd)	7440-05-3		0.000	mg	17094	46
Encapsulation	Other Organic Materials	0.783	mg	supplier	mold compound	silica vitreous	60676-86-0		0.667	mg	851852	76667
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		0.043	mg	54917	4943
				supplier	mold compound	Phenol Resin	26834-02-6		0.039	mg	49808	4483
				supplier	mold compound	Tetrakis(2,6-dimethylphenyl) 1,3-phenylene b	139189-30-3		0.020	mg	25543	2366
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.012	mg	15326	1379
Connections coating	Solder	0.349	mg	supplier	mold compound	Carbon black	1333-86-4		0.002	mg	2554	230
				supplier	solder alloy	Tin (Sn)	7440-31-5		0.349	mg	1000000	40115