

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R (S1)
Product Number: SMAJ51A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-I
ICP-0038	-	Lead Frame	
ICP-1778	-	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

1. Open the FTP website on your windows explorer: ftp://pubftp.littelfuse.com/ICP_Test_Reports/
2. Retrieve the username and password thru your corresponding Sales / FAE or email envrequests@littelfuse.com
3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by:



Diana Jane De Guzman - Gabinete
Environmental Data Analyst

Noted by:



Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R (S2)
Product Number: SMAJ51A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-I
ICP-0038	-	Lead Frame	
ICP-1778	-	Copper Clip	
ICP-1788	PbSn5Ag2.5	Solder Paste	7a
ICP-1558	EME-G720C	Epoxy Molding Compound	
ICP-0040	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:



Diana Jane De Guzman - Gabinete
Environmental Data Analyst

Noted by:



Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ26A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-I
ICP-0038	-	Lead Frame	
ICP-0377	-	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:



Jennilyn R. Dinglasan
Global EHS Supervisor

Noted by:



Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ70A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-1
ICP-0038	-	Lead Frame	
ICP-1778	-	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by:



Jennilyn R. Dinglasan
 Global EHS Supervisor

Noted by:



Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ8.5A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.


Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-1
ICP-0038	-	Lead Frame	
ICP-1778	-	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by: 
 Jennilyn R. Dinglasan
 Global EHS Supervisor

Noted by: 
 Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ22CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-1
ICP-0038	-	Lead Frame	
ICP-1778	-	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by:



Jennilyn R. Dinglasan
 Global EHS Supervisor

Noted by:



Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ36CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	-	Silicon Chip	
ICP-0029	-	Wafer Passivation	7c-1
ICP-0038	-	Lead Frame	
ICP-1778	-	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	-	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by:



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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ150CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:

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 Global EHS Engineer

Noted by: Arsenio M. Cesista, Jr.

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ12CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-I
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by:


Diana Jane De Guzman - Gabinete
Global EHS Analyst

Noted by:


Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ400CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

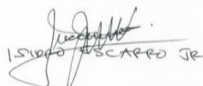
ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0031	PbSn5Ag2.5	Solder Wafer	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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3. Find the corresponding ICP ID and download the corresponding ICP report.

Issued by:



Isidro Escarro Jr.
 Global EHS Engineer

Noted by:



Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ33CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

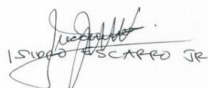
ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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Issued by:



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Noted by:



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 Global EHS Manager



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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ48CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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3. Find the corresponding ICP ID and download the corresponding ICP report.

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 Global EHS Analyst

Noted by: 
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 Global EHS Manager



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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ440CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0031	PbSn5Ag2.5	Solder Wafer	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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Issued by: 
 DIANA JANE DE GUZMAN
 Global EHS Analyst

Noted by: 
 Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ43A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ40A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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Issued by:


 DIANA JANE DE GUZMAN
 Global EHS Analyst

Noted by:


 Arsenio M. Cesista, Jr.
 Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ24CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-I
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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DIANA JANE DE GUZMAN
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Global EHS Manager



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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ100A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-1
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by: 
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 Global EHS Engineer

Noted by: 
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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ13A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ18A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-1
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-1 - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by: 
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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ28CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:


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Global EHS Engineer

Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ7.0A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ40CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R (S1)
Product Number: SMAJ5.0A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R (S2)
Product Number: SMAJ5.0A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1706	C19210	Lead Frame	
ICP-1706	C19210	Copper Clip	
ICP-1707	PbSn5Ag2.5-D3-RM218-8	Solder	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1844	Sn99.90A	Tin Plating	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by: Arsenio M. Cesista, Jr.
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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ15A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ5.0CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	
ICP-0038	Copper	Lead Frame	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ6.0A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:


Sharie Lyn S. Mantilla
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Noted by:


Arsenio M. Cesista, Jr.
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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ11A

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:


Sharie Lyn S. Mantilla
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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ11CA

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ12A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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Issued by:



Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:



Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ18CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ30A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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Issued by:


Sharie Lyn S. Mantilla
Global EHS Engineer

Noted by:


Arsenio M. Cesista, Jr.
Global EHS Manager

RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ33A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ58A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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Noted by:


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ60A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ60CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ64A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ75A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ85A

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ90CA

This document hereby certifies that the aforementioned product and all its associated materials, are in compliance with RoHS Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)

ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-l
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
7c-l - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound


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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ250CA

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Furthermore, it is hereby reported that the aforementioned product is composed of the following materials wherein valid Eu RoHS exemptions may be indicated as applicable.

Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0031	PbSn5Ag2.5	Solder Wafer	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

To view the third party RoHS validation report of these materials, see download procedure below.

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RoHS Lab Analysis Report and Certification



Product Description: TVS Diode SMA Suf MT T&R
Product Number: SMAJ350CA

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Table 1. Product material composition and applicable RoHS exemption(s)


ICP ID	Raw Material Part Number	Raw Material Description	Applicable RoHS Exemption(s)
ICP-0027	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation	7c-I
ICP-0038	Copper	Lead Frame	
ICP-1778	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0031	PbSn5Ag2.5	Solder Wafer	7a
ICP-0028	EME-E110G	Epoxy Molding Compound	
ICP-1787	Pure Matte Tin	Tin Plating (SMD)	

Remarks: 7a - Lead in high melting temperature type solders (lead-based alloys containing 85 % by weight or more lead)
 7c-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound

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