

# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ20CA 3K T&R
Product Number: SMBJ20CA

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-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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 D. Gabinete Environmental Data Analyst

Noted by: Arsenio M. Cesista, Jr.



# **RoHS Lab Analysis Report and Certification**





TVS SURF MT DO214AA - SMBJ30CA 3K T&R (S1) **Product Description: Product Number:** SMBJ30CA

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.

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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-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 D. Gabinete

**Environmental Data Analyst** 

Noted by: Arsenio M. Cesista, Jr.



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ13CA 3K T&R (S1)
Product Number: SMBJ13CA

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-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 D. Gabinete Environmental Data Analyst

Noted by: Arsenio M. Cesista, Jr.



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS Surf Mt DO214AA SMBJ350CA
Product Number: SMBJ350CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 D. Gabinete Environmental Data Analyst

Noted by: Arsenio M. Cesista, Jr.



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS Surf Mt DO214AA SMBJ300A

Product Number: SMBJ300A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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:

Jennilyn R. Dinglasan Global EHS Supervisor

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



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ26CA 3K T&R

Product Number: SMBJ26CA

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-l
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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- 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.



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ70A CR T&R

Product Number: SMBJ70A

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-l
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

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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.



## **RoHS Lab Analysis Report and Certification**



HF

Product Description: TVS SURF MT DO214AA - DO214AA

Product Number: SMBJ100A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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)
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Issued by:

Jennilyn R. Dinglasan Global EHS Supervisor

Noted by: Arsenio M. Cesista, Jr.



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ170CA 3K T&R

Product Number: SMBJ170CA

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-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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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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.



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ13A 3K T&R

Product Number: SMBJ13A

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.

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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-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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)

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Issued by:

Diana Jane De Guzman - Gabinete

Global EHS Analyst

Noted by: Arsenio M. Cesista, Jr.



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ24CA 3K T&R

Product Number: SMBJ24CA

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.

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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 - Glass (White Powder)	7c-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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)

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Issued by:

DIANA JANE DE GUZMAN Global EHS Analyst

Noted by:



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ8.5CA CR T&R

Product Number: SMBJ8.5CA

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ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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)
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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 SURF MT DO214AA - SMBJ36A 3K T&R

Product Number: SMBJ36A

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.

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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-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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: Arsen



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ110CA 3K T&R

Product Number: SMBJ110CA

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ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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)

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

Issued by:

DIANA JANE DE GUZMAN Global EHS Analyst

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ160CA 3K T&R
Product Number: SMBJ160CA

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-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 Global EHS Analyst

Noted by: Arse



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ54A CR T&R

Product Number: SMBJ54A

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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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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 Global EHS Analyst

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ8.0A CR T&R

Product Number: SMBJ8.0A

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 - Glass (White Powder)	7c-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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 Global EHS Analyst

Noted by: Arsenio M. Cesista, Jr.



## **RoHS Lab Analysis Report and Certification**



Halogen Free

Product Description: TVS Surf Mt DO214AA SMBJ400CA

Product Number: SMBJ400CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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 Global EHS Analyst

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ11CA 3K T&R

Product Number: SMBJ11CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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 Global EHS Analyst

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ36CA 3K T&R

Product Number: SMBJ36CA

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-0377	Copper	Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0046	CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ18A 3K T&R

Product Number: SMBJ18A

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-0377	Copper	Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0046	CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ5.0A CR T&R

Product Number: SMBJ5.0A

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 - Glass (White Powder)	7c-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ48A 3K T&R

Product Number: SMBJ48A

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)

Table 11.1 Teader material composition and applicable from exemption(c)			
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-0377	Copper	Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0046	CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ28CA 3K T&R

Product Number: SMBJ28CA

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-0377	Copper	Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0046	CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ6.0C CR T&R

Product Number: SMBJ6.0C

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-0377	Copper	Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS Surf Mt DO214AA SMBJ200A

Product Number: SMBJ200A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS 600W 250V 5%UNI DO-214AA TR13 RoHS

Product Number: SMBJ250A

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)

Table 1.1 Teader material composition and applicable from exemption(c)			
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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ7.0A CR T&R

Product Number: SMBJ7.0A

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 - Glass (White Powder)	7c-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ5.0CA CR T&R

Product Number: SMBJ5.0CA

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 - Glass (White Powder)	7c-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ6.5CA CR T&R

Product Number: SMBJ6.5CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ12A 3K T&R

Product Number: SMBJ12A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ12A 3K T&R S2

Product Number: SMBJ12A

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-1706	C19210	Lead Frame	
ICP-1706	C19210	Copper Clip	
ICP-1708	87XG	Solder Paste	7a
ICP-1843	EK-1700G	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-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:

Sharie Lyn S. Mantilla Global EHS Engineer

Noted by:



# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ15CA 3K T&R

Product Number: SMBJ15CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 1. Open the FTP website on your windows explorer: ftp://pubftp.littelfuse.com/ICP\_Test\_Reports/
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- 3. Find the corresponding ICP ID and download the corresponding ICP report.

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Sharie Lyn S. Mantilla Global EHS Engineer

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# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ16CA 3K T&R

Product Number: SMBJ16CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 1. Open the FTP website on your windows explorer: ftp://pubftp.littelfuse.com/ICP\_Test\_Reports/
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- 3. Find the corresponding ICP ID and download the corresponding ICP report.

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Sharie Lyn S. Mantilla Global EHS Engineer

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## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ18CA 3K T&R

Product Number: SMBJ18CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 SURF MT DO214AA - SMBJ28A 3K T&R

Product Number: SMBJ28A

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-0377	Copper	Clip	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0038	Copper	Lead Frame	
ICP-0046	CK-2000C	Epoxy Molding Compound	
ICP-0040	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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## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ33A 3K T&R

Product Number: SMBJ33A

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-0377	Copper	Clip	
ICP-0038	Copper	Lead Frame	
ICP-0050	F367SN10-86D4	Solder Paste	7a
ICP-0046	CK-2000C	Epoxy Molding Compound	
ICP-0040	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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# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ33CA 3K T&R

Product Number: SMBJ33CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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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- 3. Find the corresponding ICP ID and download the corresponding ICP report.

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# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ120CA 3K T&R

Product Number: SMBJ120CA

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 SURF MT DO214AA - SMBJ40A 3K T&R

Product Number: SMBJ40A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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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- 3. Find the corresponding ICP ID and download the corresponding ICP report.

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# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ60A CR T&R

Product Number: SMB60A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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 SURF MT DO214AA - SMBJ150A 3K T&R

Product Number: SMBJ150A

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-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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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Sharie Lyn S. Mantilla Global EHS Engineer

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## **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ6.5A CR T&R (S1)

Product Number: SMBJ6.5A

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.

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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 - Glass (White Powder)	7c-l
ICP-0038	Copper	Lead Frame	
ICP-0377	Copper	Copper Clip	
ICP-0050	F367SN10-90P4	Solder Paste	7a
ICP-0046	CK-2000A, CK-2000C	Epoxy Molding Compound	
ICP-0040	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.

- 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:

Sharie Lyn S. Mantilla Global EHS Engineer

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# **RoHS Lab Analysis Report and Certification**





Product Description: TVS SURF MT DO214AA - SMBJ6.5A CR T&R (S2)

Product Number: SMBJ6.5A

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	IC Wafer	Silicon Chip	
ICP-0029	Propriety	Wafer Passivation - Glass (White Powder)	7c-l
ICP-1706	C19210	Lead Frame	
ICP-1706	C19210	Copper Clip	
ICP-1708	87XG	Solder Paste	7a
ICP-1843	EK-1700G	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-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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