

Optocoupler



Verification Certificate

This is to certify that: Vishay Semiconductor GmbH
Theresienstrasse 2
Heilbronn
74072
Germany

Holds Certificate Number: VC 641595

In respect of:

**BS EN 62368-1:2014 Audio/Video, information and communication Technology Equipment
Clauses 5.4, 5.5 & 6.4.5**

Type samples representative of the products listed have been tested and examined to the relevant requirements of the normative reference listed and have been found to comply with these requirements as detailed in the related Test Report as listed on page 2



For and on behalf of BSI:

Shahn Barhom, Group Product Certification Director

First Issued: 2016-01-15

Effective Date: 2023-07-20

Latest Issue: 2023-07-20

Expiry Date: 2025-03-15

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No. VC 641595

Manufacturing Location: Vishay Semiconductor Malaysia Sdn. Bhd.
No. 1710-1 Kawasan Perindustrian Krubong
75250 Melaka
Malaysia

Test Report Numbers: 3908926

Product Description

Optocoupler types SFH6*[^]X-#.... using 'over-under' construction (bi-plane)

Using leadframe types 1001-9130-4AC or 0019212-1AC

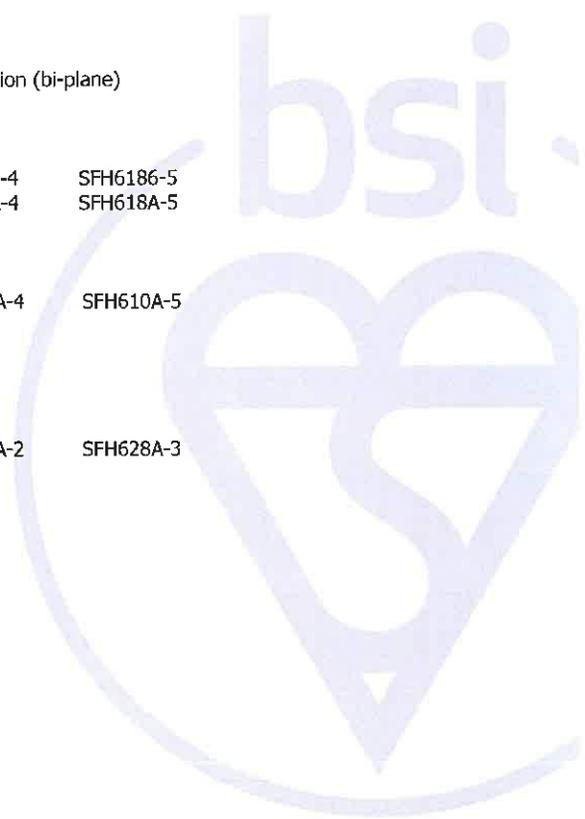
SFH6186-1	SFH6186-2	SFH6186-3	SFH6186-4	SFH6186-5
SFH618A-1	SFH618A-2	SFH618A-3	SFH618A-4	SFH618A-5

Using leadframe types 1001-9130-4BC or 0019212-1BC

SFH610A-1	SFH610A-2	SFH610A-3	SFH610A-4	SFH610A-5
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Using leadframe types 1001-9130-4EC or 0019212-1EC

SFH620A-2	SFH620A-3	SFH620AAA		
SFH6206-1	SFH6206-2	SFH6206-3		
SFH6286-2	SFH6286-3	SFH6286-4	SFH628A-2	SFH628A-3
SFH628A-4				



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Rated as below:

Standard models

	Basic and Supplementary Insulation	Reinforced Insulation
1. Insulation system:	Basic / Supplementary	Reinforced
2. Mains supply voltage:	600 V r.m.s.	300 V r.m.s.
3. RMS working voltage:	600 V r.m.s.	300 V r.m.s.
4. Peak working voltage:	2500 V peak	2500 V peak
5. Overvoltage category:	II	II
6. Pollution degree:	External 2 Internal 1	External 2 Internal 1
7. Maximum operating temperature:	100 °C	100 °C
8. Clearance distance:	≥3.0 mm	≥3.6 mm
9. Creepage distance:	≥6.0 mm	≥6.0 mm
10. Distance through insulation:	≥0.4 mm	≥0.4 mm
11. Comparative Tracking Index (CTI):	175 ≤ CTI ≤ 400	175 ≤ CTI ≤ 400
12. Material group:	IIIa	IIIa
Working parameters		
Mains transient voltage (Withstand voltage)	4000 V peak	2500 V peak
Thermal cycling storage temperature:	110 °C	110 °C
Thermal cycling electric strength test voltage.	4000 V peak	5000 V peak

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"Option 6", "Option 7", "Option 8" and "Option 9" models

	Basic and Supplementary Insulation	Reinforced Insulation
1. Insulation system:	Basic / Supplementary	Reinforced
2. Mains supply voltage:	600 V r.m.s.	400 V r.m.s.
3. RMS working voltage:	600 V r.m.s.	400 V r.m.s.
4. Peak working voltage:	2500 V peak	2500 V peak
5. Overvoltage category:	II	II
6. Pollution degree:	External 2 Internal 1	External 2 Internal 1
7. Maximum operating temperature:	100 °C	100 °C
8. Clearance distance:	≥3.0 mm	≥5.5 mm
9. Creepage distance:	≥6.0 mm	≥8.0 mm
10. Distance through insulation:	≥0.4 mm	≥0.4 mm
11. Comparative Tracking Index (CTI):	175 ≤ CTI ≤ 400	175 ≤ CTI ≤ 400
12. Material group:	IIIa	IIIa
Working parameters		
Mains transient voltage (Withstand voltage)	4000 V peak	4000 V
Thermal cycling storage temperature:	110 °C	110 °C
Thermal cycling electric strength test voltage.	4000 V peak	6000 V peak

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