

Safety Standard Certificate for Photocouplers

**PS2701, PS2701A, PS2702, PS2703, PS2705,
PS2706*, PS2733*, PS2761B,
PS2801-1, PS2801-4*, PS2801C-1, PS2802*,
PS2805-1, PS2805-4*, PS2805C-1, PS2806*,
PS2861B**

● BSI Certificate

Standard	BS EN 60065:2002+A12:2011 BS EN 60950-1:2006+A12:2011
Certificate No.	9045 9050

* Made in Japan only


S.KAWATA

Department Manager
General Purpose Analog and Power Solution Department
General Purpose Analog and Power Business Division
2nd Solution Business Unit
Renesas Electronics Corporation

Test Certificate

Electronic Components



Certificate No 9045

This is to certify that Optocoupler types as listed in the schedule to this certificate

Submitted by Renesas Electronics Corporation
1753 Shimonumabe, Nakahara-ku
Kawasaki
Kanagawa
211-8668
Japan

Have been tested by BSI in accordance with CP0322 and Test Leaflet 5 to BS EN 60065:2002+A12:2011 Sub-clauses 13.1, 13.4, 13.6 14.11 and 20.1.4

Details of the scope of the testing are given in BSI Report TR/14/193 and any addenda thereto.

Signed

Emma Rouse

Issue date 01 April 2014

Expiry date 29 April 2016

Attention is drawn to the conditions under which this certificate is issued, namely:

1. The Conditions of Contract for Testing (CP0322) and the specific conditions (Test Leaflet No TL5 or TL22 as stated above) apply in all respects.
2. This certificate may not be published except in full including any schedule unless permission for the publication of an approved extract has been obtained in writing from the Managing Director of Testing Services
3. This certificate is valid until the expiry date shown above. It shall then be considered cancelled and withdrawn and shall not be used in any way whatsoever.
4. If BSI is satisfied that the manufacturer is marketing what is purporting to be the same model of component but which has been altered or modified or is in any material aspect different from the item tested or is satisfied in respect of evidence discovered by or submitted to it that components purported to be identical to that originally certified are no longer meeting any part of the requirements of the original examination and tests then the certificate will be immediately withdrawn and shall not be used in any way whatsoever.

Optocoupler types PS2701-1, PS2701A-1, PS2702-1, PS2703-1, PS2705-1, PS2706-1 and PS2733-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Basic
3.	Mains supply voltage:	≤ 250 V r.m.s.
4.	Working voltage:	≤ 400 V r.m.s.
5.	Peak working voltage:	1400 V
6.	Pollution degree:	2
7.	Flammability category:	V-0
8.	Maximum operating temperature:	100 °C

Optocoupler type PS2761B-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Reinforced
3.	Mains supply voltage:	≤ 250 V r.m.s.
4.	Working voltage:	≤ 250 V r.m.s.
5.	Peak working voltage:	520 V
6.	Pollution degree:	2
7.	Flammability category:	V-0
8.	Maximum operating temperature:	110 °C

Optocoupler types PS2801-1, PS2801-4, PS2802-1, PS2802-4, PS2805-1, PS2805-4, PS2806-1, PS2806-4, PS2801C-1 and PS2805C-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Basic
3.	Mains supply voltage:	≤ 250 V r.m.s.
4.	Working voltage:	≤ 400 V r.m.s.
5.	Peak working voltage:	1400 V
6.	Pollution degree:	2
7.	Flammability category:	V-0
8.	Maximum operating temperature:	100 °C

Optocoupler type PS2861B-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Reinforced
3.	Mains supply voltage:	≤ 250 V r.m.s.
4.	Working voltage:	≤ 250 V r.m.s.
5.	Peak working voltage:	520 V
6.	Pollution degree:	2
7.	Flammability category:	V-0
8.	Maximum operating temperature:	110 °C

This schedule must be read in conjunction with the test certificate identified above and may not be published except in full including the certificate.

Prepared by: BSI Appliances, Holywell Park, Ashby Road, Loughborough LE11 3AQ

Test Certificate

Electronic Components



Certificate No 9050

This is to certify that Optocoupler types as listed in the schedule to this certificate

Submitted by Renesas Electronics Corporation
1753 Shimonumabe, Nakahara-ku
Kawasaki
Kanagawa
211-8668
Japan

Have been tested by BSI in accordance with CP0322 and Test Leaflet 5 to BS EN 60950-1:2006 + A12:2011 Sub-clauses 2.9.1, 2.9.2, 2.10.1, Annex G.1.1, Annex G.6, 2.10.4, 2.10.4.3, 2.10.5.2, 2.10.9, 2.10.10, 2.10.11, 2.10.12, 4.7.3.4 (Clauses A.2.1 – A.2.7) and 5.2.2

Details of the scope of the testing are given in BSI Report TR/14/193 and any addenda thereto.

Signed 

Issue date 01 April 2014

Expiry date 29 April 2016

Attention is drawn to the conditions under which this certificate is issued, namely:

1. The Conditions of Contract for Testing (CP0322) and the specific conditions (Test Leaflet No TL5 or TL22 as stated above) apply in all respects.
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4. If BSI is satisfied that the manufacturer is marketing what is purporting to be the same model of component but which has been altered or modified or is in any material aspect different from the item tested or is satisfied in respect of evidence discovered by or submitted to it that components purported to be identical to that originally certified are no longer meeting any part of the requirements of the original examination and tests then the certificate will be immediately withdrawn and shall not be used in any way whatsoever.

Optocoupler types PS2701-1, PS2701A-1, PS2702-1, PS2703-1, PS2705-1, PS2706-1 and PS2733-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Basic
3.	Mains supply voltage:	≤ 400 V r.m.s
4.	Working voltage:	≤ 400 V r.m.s.
5.	Peak working voltage:	1400 V
6.	Pollution degree:	2
7.	Overvoltage category:	II
8.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
9.	Maximum operating temperature:	100 °C

Optocoupler type PS2761B-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Reinforced
3.	Mains supply voltage:	≤ 300 V r.m.s
4.	Working voltage:	≤ 250 V r.m.s.
5.	Peak working voltage:	520 V
6.	Pollution degree:	2
7.	Overvoltage category:	II
8.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
9.	Maximum operating temperature:	110 °C

Optocoupler types PS2801-1, PS2801-4, PS2802-1, PS2802-4, PS2805-1, PS2805-4, PS2806-1, PS2806-4, PS2801C-1 and PS2805C-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Basic
3.	Mains supply voltage:	≤ 400 V r.m.s
4.	Working voltage:	≤ 400 V r.m.s.
5.	Peak working voltage:	1400 V
6.	Pollution degree:	2
7.	Overvoltage category:	II
8.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
9.	Maximum operating temperature:	100 °C

Optocoupler type PS2861B-1

As rated below:

1.	Hygroscopic/asbestos/natural rubber materials used:	None
2.	Insulation system:	Reinforced
3.	Mains supply voltage:	≤ 300 V r.m.s
4.	Working voltage:	≤ 250 V r.m.s.
5.	Peak working voltage:	520 V
6.	Pollution degree:	2
7.	Overvoltage category:	II
8.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
9.	Maximum operating temperature:	110 °C

This schedule must be read in conjunction with the test certificate identified above and may not be published except in full including the certificate.

Prepared by: BSI Appliances, Holywell Park, Ashby Road, Loughborough LE11 3AQ.

Name of Client: *Renesas Electronics Corporation*
Product: *Optocouplers PS27xx, PS28xx Series*
Standard: *BS EN 60065:2002+A12:2011 & BS EN 60950:-1:2006+A12:2011*

Manufacturer Detail

Manufacturer	Plant	Address
Kyushu Denshi Co., Ltd.	Japan	89 Nagasaki, Shiranui-machi, Uki-shi, Kumamoto 869-0562, Japan
Microwave & Optical Semiconductors Taiwan Co., Ltd.	Taiwan	587 Gao Shu Road Gao Shan Li Yangmei Taoyuan Taiwan R.O.C.
