

Safety Standard Certificate for Photocouplers

***PS2533*, PS2535*, PS2561, PS2561A, PS2561B,
PS2561D, PS2562*, PS2565, PS2571, PS2581L,
PS2581AL***

● BSI Certificates

Standards BS EN 60065:2002+A12:2011
 BS EN 60950-1:2006+A2:2013

Certificate No. 9044
 9049

* Made in Japan only


S.KAWATA

Expert
General Purpose Analog and Power Solution Department 1
General Purpose Analog and Power Business Division
2nd Solution Business Unit
Renesas Electronics Corporation

Test Certificate

Electronic Components



Certificate No 9044

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 Reports TR/14/373 and any addenda thereto.

Signed

Emma Rouse

Issue date 30 May 2014

Expiry date 29 May 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 This certificate may not be published except in full including any schedule unless permission for the publication of an approved extract has been obtained in writing from the Managing Director of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 It shall then be considered cancelled and withdrawn and shall not be used in any way whatsoever.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 purporting 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meeting any part of the requirements of the original examination and tests then the certificate will be immediately withdrawn and shall not be used in any way whatsoever.

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

Optocoupler types:

PS2571-1
PS2571L1-1

As rated below:

1.	Insulation system:	Reinforced
2.	Mains supply voltage:	≤ 250 V r.m.s.
3.	Operating voltage:	≤ 300 V r.m.s.
4.	Peak operating voltage:	420 V
5.	Pollution degree:	2
6.	Flammability category:	V-0
7.	Maximum operating temperature:	100 °C

Optocoupler types:

PS2533-1 **PS2533L-1**
PS2535-1 **PS2535L-1**

As rated below:

1.	Insulation system:	Reinforced
2.	Mains supply voltage:	≤ 250 V r.m.s.
3.	Operating voltage:	≤ 300 V r.m.s.
4.	Peak operating voltage:	420 V
5.	Pollution degree:	2
6.	Flammability classification rating:	V-0
7.	Maximum operating temperature:	100 °C

Optocoupler types:

PS2581L1 **PS2581L2**
PS2581AL1 **PS2581AL2**

As rated below:

1.	Insulation system:	Reinforced
2.	Mains supply voltage:	≤ 250 V r.m.s.
3.	Working voltage:	400 V r.m.s.
4.	Peak working voltage:	1400 V
5.	Pollution degree:	2
6.	Flammability classification rating:	V-0
7.	Maximum operating temperature:	100°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.

Schedule to Test Certificate No 9044
Schedule Issue date 30 May 2014
Test certificate expiry date 29 May 2016



Optocoupler types:

PS2561*-1 **PS2562*-1**
PS2561A*-1 **PS2565*-1**
PS2561B*-1
PS2561D*-1

As rated below:

1.	Insulation System	Reinforced
2.	Mains Supply Voltage	≤ 250 V rms
3.	Working Voltage	≤400 V rms
4.	Peak Working Voltage	420 V
5.	Pollution Degree	2
6.	Flamability Category	V-0
7.	Maximum Operating Temperature	110°C (PS2561B, PS2561D Series) 100°C (All Others)

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	9049
This is to certify that	Optocoupler types as listed in the schedule to this certificate
Submitted by	<p>Renesas Electronics Corporation 1753 Shimonumabe Nakahara-ku Kawasaki Kanagawa 211-8668 Japan</p> <p>Have been tested by BSI in accordance with CP0322 and Test Leaflet 5 to BS EN 60950-1:2006 + A2:2013 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</p> <p>Details of the scope of the testing are given in BSI Reports TR/14/373 and any addenda thereto.</p>
Signed	
Issue date	30 May 2014
Expiry date	29 May 2016
	<p>Attention is drawn to the conditions under which this certificate is issued, namely:</p> <ol style="list-style-type: none">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 Services3. 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:

PS2571-1
PS2571L1-1

As rated below:

1.	Insulation system:	Reinforced
2.	Mains supply voltage:	≤ 300 V r.m.s.
3.	Working voltage:	≤ 300 V r.m.s.
4.	Peak working voltage:	420 V
5.	Overvoltage category:	II
6.	Pollution degree:	2
7.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
8.	Maximum operating temperature:	100 °C

Optocoupler types:

PS2533-1 **PS2533L-1**
PS2535-1 **PS2535L-1**

As rated below:

1.	Insulation system:	Reinforced
2.	Mains supply voltage:	≤ 300 V r.m.s.
3.	Working voltage:	≤ 300 V r.m.s.
4.	Peak working voltage:	420 V
5.	Overvoltage category:	II
6.	Pollution degree:	2
7.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
8.	Maximum operating temperature:	100 °C

Optocoupler types:

PS2581L1 **PS2581L2**
PS2581AL1 **PS2581AL2**

As rated below:

1.	Insulation system:	Reinforced
2.	Mains supply voltage:	≤ 400 V r.m.s.
3.	Working voltage:	≤ 400 V r.m.s.
4.	Peak working voltage:	1400 V
5.	Overvoltage category:	II
6.	Pollution degree:	2
7.	Sub-clause 4.7.3.4 (Clause A.2.7):	Pass
8.	Maximum operating temperature:	100 °C

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Schedule to Test Certificate No 9049
Schedule Issue date 30 May 2014
Test certificate expiry date 29 May 2016



Optocoupler types:

PS2561*-1 **PS2562*-1**
PS2561A*-1 **PS2565*-1**
PS2561B*-1
PS2561D*-1

As rated below:

1.	Insulation System	Reinforced
2.	Mains Supply Voltage	≤ 300 V rms
3.	Working Voltage	≤350V rms
4.	Peak Working Voltage	420 V
5.	Overvoltage Category	II
6.	Pollution Degree	2
7.	Sub Clause 4.7.3.4 (Clause A.2.7)	V-0
8.	Maximum Operating Temperature	110°C (PS2561B, PS2561D Series) 100°C (All Others)

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.