

PS2911, PS2913, PS2915, PS2933

● **BSI Certificate**

Standard BS EN 60065, IEC 60065
 BS EN 60950, IEC 60950

Certificate No. 8657
 8658



H.TAKAHASHI

Department Manager
Optical Device Engineering
Technical Marketing Department
Compound Semiconductor Devices Business Division
Analog & Power Devices Business Unit
Renesas Electronics Corporation

Test Certificate

Electronic components



Certificate No 8657

This is to certify that 4-Pin Ultra small flat-lead package optocouplers as listed
In the schedule to this certificate

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

have been tested by BSI in accordance with CP0322 and Test Leaflet 5 to
BS EN 60065:2002+A2:2010 Incorporating corrigenda August 2002 and
August 2007 (IEC 60065:2001 and Amendment No 2)
Sub-clauses 13.1, 14.11 and 20.1.4

Details of the scope of the testing are given in
BSI Report No 245/4218580 and any addenda thereto.

Signed

A handwritten signature in black ink, appearing to read 'Hosaka', is enclosed within a simple black oval border.

Issue date 17 October 2011

Expiry date 16 October 2013

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 This certificate may not be published except in full including any schedule unless permission for the publication of an approved extract has been obtained in writing from the Managing Director of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 It shall then be considered cancelled and withdrawn and shall not be used in any way whatsoever.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meeting any part of the requirements of the original examination and tests then the certificate will be immediately withdrawn and shall not be used in any way whatsoever.

Schedule to Test Certificate No
Schedule issue date
Test Certificate expiry date

8657
17 October 2011
16 October 2013



4-Pin Ultra small flat-lead package optocoupler types:

PS2911-1, PS2913-1, PS2915-1, PS2932-1 and PS2933-1

Rated as follows:

- | | |
|--|---------------------|
| 1. Insulation system: | Basic |
| 2. Mains supply voltage: | ≤ 250 V r.m.s. |
| 3. Working voltage: | ≤ 400 V r.m.s. |
| 4. Peak working voltage: | 840 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.

Test Certificate

Electronic components



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In the schedule to this certificate.

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

have been tested by BSI in accordance with CP0322 and Test Leaflet 5 to BS EN 60950-1:2006+A1:2010 Incorporating Corrigenda June 2006, August 2006 and September 2010 and CENELEC amendment A11 (IEC 60950-1:2005 and Amendment No 1:2009) Sub-clauses 2.9.1, 2.10.1, 2.10.5.2, 2.10.5.3, 2.10.5.4, 2.10.9, 2.10.11, 4.7.3.4 (Clause A.2.7) and 5.2.2

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Signed

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4-Pin Ultra small flat-lead package optocoupler types:

PS2911-1, PS2913-1, PS2915-1, PS2932-1 and PS2933-1

Rated as follows:

- | | |
|---------------------------------------|---------------------|
| 1. Insulation system: | Basic |
| 2. Mains supply voltage: | ≤ 400 V r.m.s. |
| 3. Working voltage: | ≤ 400 V r.m.s. |
| 4. Peak working voltage: | 840 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 |

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