

## Optocoupler

### Test Certificate

Electronic components



Certificate No 7538

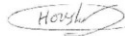
This is to certify that Optocoupler types as listed in the schedule to this certificate

Submitted by Vishay Semiconductor GmbH  
Theresienstraße 2  
74072 Heilbronn  
Germany

have been tested by BSI in accordance with PS082 and Test Leaflet 5 to BS EN 60950-1:2006 (IEC 60950-1:2005) 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

Details of the scope of the testing are given in BSI Report No 148846 and any addenda thereto.

Signed



Issue date 20 January 2009

Expiry date 19 January 2011

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

1. The general conditions relating to acceptance of testing (PS082) 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 This certificate may not be published except in full including any schedule unless permission for the publication of an approved extract has been obtained in writing from the Managing Director of BSI Product 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 It shall then be considered cancelled and withdrawn and shall not be used in any way whatsoever.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meeting any part of the requirements of the original examination and tests then the certificate will be immediately withdrawn and shall not be used in any way whatsoever.

Prepared by: BSI Product Services Maylands Avenue Hemel Hempstead Hertfordshire HP2 4SQ



Schedule to Test Certificate No 7538 (1 of 8)  
Schedule issue date 20 January 2009  
Test Certificate expiry date 19 January 2011



### SHANGHAI FACTORY

1. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

4N25	CNY17-1	H11A1	MCT270	SFH600-0
4N26	CNY17-2	H11A2	MCT271	SFH600-1
4N27	CNY17-3	H11A3	MCT272	SFH600-2
4N28	CNY17-4	H11A4	MCT273	SFH600-3
4N32		H11A5	MCT274	
4N33	CNY17F-1		MCT275	SL5500
4N35	CNY17F-2	IL1	MCT276	SL5501
4N36	CNY17F-3	IL2	MCT277	SL5511
4N37	CNY17F-4			
4N38		IL201	MCT2	
		IL202	MCT2E	
		IL203		

Using Lead frame type 1001-9009-4BC.

Using Lead bending configurations, standard and options 6, 7, 8 and 9.

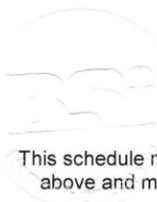
As rated below:

#### Reinforced Insulation

Mains supply voltage:	≤ 300 V r.m.s. (Standard lead form)
	≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Working voltage:	≤ 300 V r.m.s. (Standard lead form)
	≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Peak working voltage:	640 V
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

#### Supplementary Insulation

Mains supply voltage:	≤ 600 V r.m.s. (All lead forms)
Working voltage:	≤ 600 V r.m.s. (All lead forms)
Peak working voltage:	None
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C



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**SHANGHAI FACTORY**

2. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

CNY117-1	CNY117F-1
CNY117-2	CNY117F-2
CNY117-3	CNY117F-3
CNY117-4	CNY117F-4

Using Lead frame type 1001-9009-4BC.  
 Using Lead bending configurations, standard and options 6, 7, 8 and 9.

As rated below

**Reinforced Insulation**

Mains supply voltage:	≤ 300 V r.m.s. (Standard lead form)
	≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Working voltage:	≤ 300 V r.m.s. (Standard lead form)
	≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Peak working voltage:	640 V
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	110 °C

**Supplementary Insulation**

Mains supply voltage:	≤ 600 V r.m.s. (All lead forms)
Working voltage:	≤ 600 V r.m.s. (All lead forms)
Peak working voltage:	None
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
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.

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### MALAYSIA FACTORY

3. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

H11AA1	IL250	IL255
H11AA1-1152	IL251	IL255-1
	IL252	IL255-2

Using Lead frame type 1001-9082-4AC.  
Using Lead bending configurations, standard and options 6, 7, 8 and 9.

4. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

MCT5210  
MCT5211

Using Lead frame type 1001-9001-1AC.  
Using Lead bending configurations, standard and options 6, 7, 8 and 9.

As rated below

#### Reinforced Insulation

Mains supply voltage:	≤ 300 V r.m.s. (Standard lead form)
	≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Working voltage:	≤ 300 V r.m.s. (Standard lead form)
	≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Peak working voltage:	640 V
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

#### Supplementary Insulation

Mains supply voltage:	≤ 600 V r.m.s. (All lead forms)
Working voltage:	≤ 600 V r.m.s. (All lead forms)
Peak working voltage:	None
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

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**MALAYSIA FACTORY**

5. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

H11B1	IL30	IL55	MCA230	MOC8050
H11B2	IL31	IL55-1058	MCA231	
H11B3		IL55B	MCA255	

Using Lead frame type 1001-9211-1AC.  
 Using Lead bending configurations, standard and options 6, 7, 8 and 9.

6. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

H11D1	SFH640-1
H11D2	SFH640-2
H11D3	SFH640-3
H11D4	

Using Lead frame type 1001-9211-1AC.  
 Using Lead bending configurations, standard and options 6, 7, 8 and 9.

As rated below

**Reinforced Insulation**

Mains supply voltage: ≤ 300 V r.m.s. (Standard lead form)  
 ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)  
 Working voltage: ≤ 300 V r.m.s. (Standard lead form)  
 ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)  
 Peak working voltage: 640 V  
 Overvoltage category: II  
 Pollution degree: 2  
 Flammability classification rating: Pass  
 Maximum operating temperature: 100 °C

**Supplementary Insulation**

Mains supply voltage: ≤ 600 V r.m.s. (All lead forms)  
 Working voltage: ≤ 600 V r.m.s. (All lead forms)  
 Peak working voltage: None  
 Overvoltage category: II  
 Pollution degree: 2  
 Flammability classification rating: Pass  
 Maximum operating temperature: 100 °C

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### MALAYSIA FACTORY

7. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

MOC8101 MOC8111  
MOC8102 MOC8112  
MOC8103  
MOC8104  
MOC8105

Using Lead frame type 1001-9211-1AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9

8. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

IL5

Using Lead frame type 1001-9211-1AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9

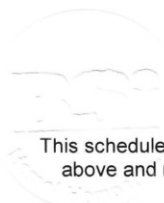
As rated below:

#### Reinforced Insulation

Mains supply voltage:  $\leq 300$  V r.m.s. (Standard lead form)  
 $\leq 400$  V r.m.s. (Lead form options 6, 7, 8 and 9)  
Working voltage:  $\leq 300$  V r.m.s. (Standard lead form)  
 $\leq 400$  V r.m.s. (Lead form options 6, 7, 8 and 9)  
Peak working voltage: 640 V  
Overvoltage category: II  
Pollution degree: 2  
Flammability classification rating: Pass  
Maximum operating temperature: 100 °C

#### Supplementary Insulation

Mains supply voltage:  $\leq 600$  V r.m.s. (All lead forms)  
Working voltage:  $\leq 600$  V r.m.s. (All lead forms)  
Peak working voltage: None  
Overvoltage category: II  
Pollution degree: 2  
Flammability classification rating: Pass  
Maximum operating temperature: 100 °C



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**MALAYSIA FACTORY**

9. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

IL66-1	IL66-3	IL66B-1
IL66-2	IL66-4	IL66B-2

Using Lead frame type 1001-9211-1AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9

10. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

IL74

Using Lead frame type 1001-9211-1AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9.

11. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

IL755-1	IL755-1059	IL755B-1
IL755-2		IL755B-2

Using Lead frame type 1001-9082-4AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9

As rated below

**Reinforced Insulation**

Mains supply voltage:	≤ 300 V r.m.s. (Standard lead form) ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Working voltage:	≤ 300 V r.m.s. (Standard lead form) ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Peak working voltage:	640 V
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

**Supplementary Insulation**

Mains supply voltage:	≤ 600 V r.m.s. (All lead forms)
Working voltage:	≤ 600 V r.m.s. (All lead forms)
Peak working voltage:	None
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

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## MALAYSIA FACTORY

12. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

IL766-1  
IL766-2  
IL766B-1  
IL766B-2

Using Lead frame type 1001-9082-4AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9

13. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

SFH601-1  
SFH601-2  
SFH601-3  
SFH601-4

Using Lead frame type 1001-9211-1AC  
Using Lead bending configurations, standard and options 6, 7, 8 and 9

As rated below:

### Reinforced Insulation

Mains supply voltage:	≤ 300 V r.m.s. (Standard lead form) ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Working voltage:	≤ 300 V r.m.s. (Standard lead form) ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Peak working voltage:	640 V
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

### Supplementary Insulation

Mains supply voltage:	≤ 600 V r.m.s. (All lead forms)
Working voltage:	≤ 600 V r.m.s. (All lead forms)
Peak working voltage:	None
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

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**MALAYSIA FACTORY**

14. Optocoupler in DIP-6 packages, 'over-under' construction (bi-plane) as listed below

SFH608-2  
SFH608-3  
SFH608-4  
SFH608-5

Using Lead frame type 1001-9211-1AC.

Using Lead bending configurations, standard and options 6, 7, 8 and 9.

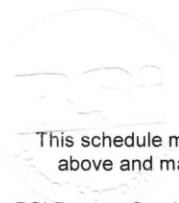
As rated below:

**Reinforced Insulation**

Mains supply voltage:	≤ 300 V r.m.s. (Standard lead form) ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Working voltage:	≤ 300 V r.m.s. (Standard lead form) ≤ 400 V r.m.s. (Lead form options 6, 7, 8 and 9)
Peak working voltage:	640 V
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C

**Supplementary Insulation**

Mains supply voltage:	≤ 600 V r.m.s. (All lead forms)
Working voltage:	≤ 600 V r.m.s. (All lead forms)
Peak working voltage:	None
Overvoltage category:	II
Pollution degree:	2
Flammability classification rating:	Pass
Maximum operating temperature:	100 °C



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