

DEMKO CERTIFICATE

Certificate No. 315221-01
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Date of Issue 2010-01-25

Certificate Holder Fairchild Semiconductor
3001 Orchard Parkway, San Jose, CA-95134
United States

Manufacturer Fairchild Semiconductor
3001 Orchard Parkway, San Jose, CA-95134
United States

Production site Lite-On Electronics (Thailand) Co., Ltd.
38/4 Moo 1, Ransit-Ongkarak Road
Bungyeetoh, Tanyaburi, Pathumthani 12130, Thailand

Certified Product Optoinsulator for bridging of reinforced insulation
Model See appendix

Trademark -

Rated Voltage / Frequency -

Rated Current / Power -

Insulation Class -

Degree of protection (IP) -

Tested acc. to EN 60065:2002 + A1:2006 + A11:2008 and
EN 60950-1:2006 + A11:2009

Test Report No. -

Additional suffix M may be added as reference in ordering options

Expire date 2011-01-17

Certification Manager

Jan-Erik Storgaard

Certification Body

The product and production sites listed on the certificate comply with the D-mark requirements and the UL Global Service Agreement, with reference to Terms and Conditions for the D mark. The Owner of the certificate is entitled to use the ® or for cables «DEMKO» for the products listed on the certificate and manufactured at the production sites listed. UL has to be informed in writing about any changes to the product or production site in accordance with the Term and Conditions of the D mark. The validity of the certificate is shortened if the EU legislation require re-testing and re-certification due to new standards or amendments coming into force before the expiry date.

UL International Demko A/S, Lyskaer 8, P.O. Box 514, DK-2730
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Appendix DEMKO CERTIFICATE

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Model:

Type designation H11...., TIL1.., MC...., CNY17-., 4N.., MOC....

The following tests have been performed with positive result:

General

- Creepage distance between input and output : >8 mm
- Distance through insulation : ≥ 0.5 mm
- Humidity test : 48h. in 93% relative humidity. Electric strength test 3750 V/1 min.
- Internal creepage distance not measured, tests according to EN 60950 2.10.11 have been performed with positive result.

Special tests according to EN 60950

- Thermal cycling test. 10 cycles. Each cycle : 68 h in 100°C, 1 h in 25°C, 2 h in 0°C and 1 h in 25°C.
After the cycling test a humidity test for 48 h in 93% relative humidity.
Electric strength test between input and output 5000 V/1 minute.

After judgement from case to case, the opto-insulator can bridge basic, supplementary, double or reinforced insulation, provided that the ratings in data sheet are not exceeded in normal operation or under fault conditions in the appliance.

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The following types are included:

| Device family | Device types |
|---------------|---|
| H11AX | H11A1, H11A2, H11A3, H11A4, H11A5, H11AV1, H11AV2, H11AV2A, TIL111, TIL117, MCT2, MCT2E, MCT271, MCT272, MCT273, CNY17-1, CNY17-2, CNY17-3, 4N25, 4N25A, 4N26, 4N27, 4N28, 4N35, 4N36, 4N37, 4N38, MOC8100 |
| H11AXK | MOC8101, MOC8102, MOC8103, MOC8104, MOC8105, MOC8106, MOC8107, MOC8108, MOC8111, MOC8112, MOC8113 |
| H11AAX | H11AA1, H11AA2, H11AA3, H11AA4 |
| H11BX | H11B1, H11B2, H11B3, TIL113, 4N29, 4N29A, 4N30, 4N31, 4N32, 4N32A, 4N33, |
| H11BXK | MOC8020, MOC8021, MOC8030, MOC8050, MOC119 |
| H11GX | H11G1, H11G2, H11G3 |
| H11DX | H11D1, H11D2, MOC8204 |
| H11PX/ZX | MOC3009, MOC3010, MOC3011, MOC3012, MOC3020, MOC3021, MOC3022, MOC3023, MOC3031, MOC3032, MOC3033, MOC3041, MOC3042, MOC3043, MOC3051, MOC3052, MOC3061, MOC3062, MOC3063, MOC3162, MOC3163, MOC3081, MOC3082, MOC3083, |
| H11LX/NX | H11L1, H11L2, H11L3, H11N1, H11N2, H11N3 |

NOTE: Suffix M may be added as reference in ordering options.

This certificate is an updating of certificate No. 310893-01/A1, dated 2001-10-12 which has been deleted due to not valid standard.

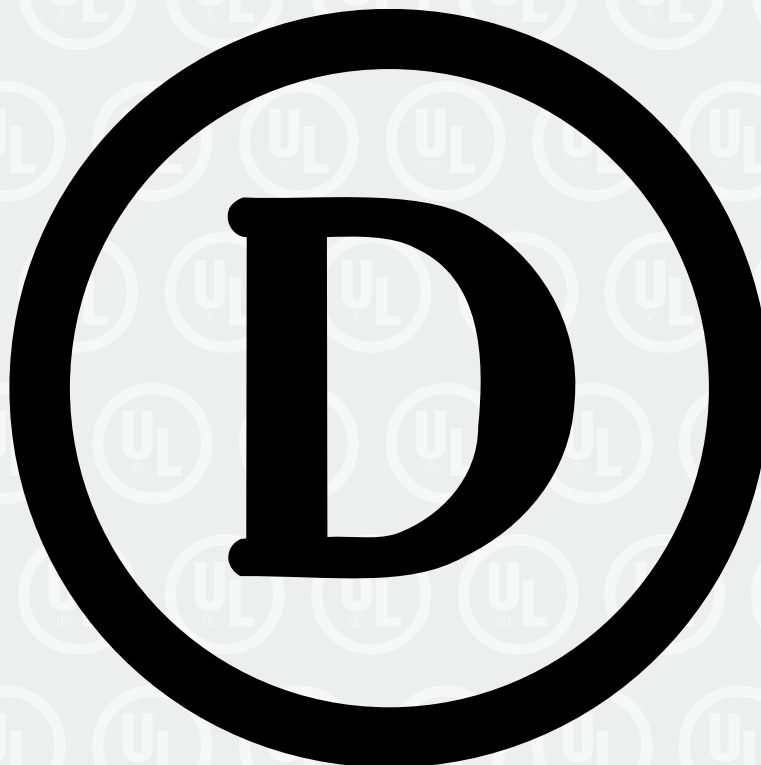
The certificate has been issued on the basis of Nordic certification Service, certificate No. 917239, issued by Intertek Semko AB, dated 2009-12-15

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Certification Mark D-mark
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