



# CERTIFICATE FI 29898 A1

Our Ref. 288639

**Product** Optocoupler

**Type** FOD814, FOD815, FOD816, FOD817, FOD617, FOD852, FOD814A, FOD817A, FOD817B, FOD817C, FOD817D, FOD617A, FOD617B, FOD617C, FOD617D, FOD817X

**Trade mark** F or ON

**Certificate Holder** Fairchild Semiconductor  
1272 Borregas Avenue, Sunnyvale, CA 94089,  
UNITED STATES

**Manufacturer** Fairchild Semiconductor  
1272 Borregas Avenue, Sunnyvale, CA 94089,  
UNITED STATES

**Technical information** Operating temperature max. 115 °C

**Other information** Above mentioned models are marked on the components as 814, 815, 816...

**The product is certified according to the following standard(s)** EN 60065:2014  
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

**Validity** This certificate is valid until 02 June 2021 provided that the Conditions for FI certification are met. This certificate includes the right to use the FI mark under the condition that product changes (if any) will be approved at SGS Fimko before the product is brought onto market.

**Date of issue** 24 August 2017

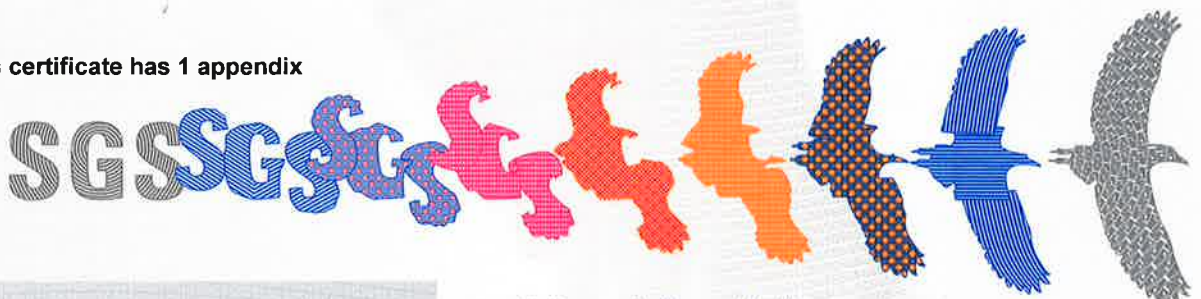
**SGS Fimko Ltd**

**Signature**



Matti Huttunen  
Certification Engineer

This certificate has 1 appendix



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

**Manufacturing sites**

Lite-On Electronics (Thailand) Co., Ltd.  
38/4 Moo 1, Rangsit-Ongkarak Road, Bungyeetoh, Tanyaburi,  
PATHUMTHANI 12130,  
THAILAND

Lite-On Electronics Inc. (TianJin)  
No. 11 Fu-Yuan Road, Wuqing Development Area, TIANJIN CITY  
301700,  
CHINA

Lite-On Opto Technology (Changzhou) Co., Ltd., A1, No. 88,  
Yanghu Road, Wujin Hi-Tech Industrial Development Zone,  
213166 JIANGSU PROVINCE,  
CHINA

**Additional information**

The following tests have been performed with positive result:

- Distance through insulation between input and output is more than 0.4 mm; measured a minimum of 0.6 mm
- External creepage distances/clearances between input and output are more than 5 mm/4 mm; measured a minimum of 7.8 mm / 7.8 mm.
- Internal creepage distances between input and output are more than 4 mm; measured a minimum of 5.2 mm.
- Insulation between the input and output withstands electric strength test of 3000 V/1 minute; it withstands also electric strength test of 5000 V/1 minute.
- Enclosure of the component withstands electric strength test of 1500 V/1 minute and it fulfils the requirement of basic insulation.
- Enclosure of the component is made of class V-0 material.

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

This certificate replaces previous certificate FI 29898, dated 31 March 2017. The trade mark "ON" has been added

**Our ref. no.**

288639-2