

Order No. 298096

CERTIFICATE

No. P13216647/A1



Product	Optocouplers
Applicant	Fairchild Semiconductor 3030 Orchard Parkway San Jose, CA 95134 USA
Manufacturer	Fairchild Semiconductor 3030 Orchard Parkway San Jose, CA 95134 USA
Factory	See page 3
Ratings	-
Trade mark	Fairchild
Model / Type Ref.	FODM121#
Principal characteristics	The suffix "#" in the type reference can be blank or any character representing CTR (Current Transfer Ratio).
A sample of the product was tested and found to be in conformity with	OFF EN 60950-1:2006;A11;A1;A12;A2
Replaces	This certificate replaces previous certificate No.P13216647, due to updating of standard.
Validity	This certificate documents conformity with the standards shown, and also applies as license for use of Nemkos name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation. New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.
Additional information	Additional information on page 3
Additional model(s)	See next page(s)

Date of issue 16-11-2015

Nastavan Vendoodi

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Nemko AS

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Procession Procession Page 2/3

Product	Optocouplers
Pos. No	1
Model / Type Ref.	HMA121#
Trade mark (if different from page 1)	
Rating	-
Principal characteristics	The suffix "#" in the type reference can be blank or any character representing CTR (Current Transfer Ratio).
Product	Optocouplers
Pos. No	2
Model / Type Ref.	FODM2701#
Trade mark (if different from page 1)	
Rating	-
Principal characteristics	The suffix "#" in the type reference can be blank or any character representing CTR (Current Transfer Ratio).
Product	Optocouplers
Pos. No	3
Model / Type Ref.	HMA2701#
Trade mark (if different from page 1)	
Rating	-
Principal characteristics	The suffix "#" in the type reference can be blank or any character representing CTR (Current Transfer Ratio).
Product	Optocouplers
Pos. No	4
Model / Type Ref.	FODM124
Trade mark (if different from page 1)	
Rating	
Principal characteristics	<u> </u>
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Product	Optocouplers
Pos. No	5
Model / Type Ref.	HMA124
Trade mark (if different from page 1)	
Rating	-
Principal characteristics	-

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Orde

Order No. 298096	
Product	Optocouplers
Pos. No	6
Model / Type Ref.	FODM2705
Trade mark (if different from page 1)	
Rating	-
Principal characteristics	-
Product	Optocouplers
Pos. No	7

Product	Optocoupler
Pos. No	7
Model / Type Ref.	HMAA2705
Trade mark (if different from page 1)	
Rating	-
Principal characteristics	-

Factories:

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

Lite-On Electronics Inc. (TianJin) Co., Ltd. No. 11 Fu-Yuan Road, Wuqing Development Area Tianjin 301700 China

Additional information External clearances / creepage distances are equal or more than 4mm / 5mm, measured a minimum of 5.0mm. Distance through insulation between input and output is more than 0.4mm, measured a minimum of 0.45mm. Internal creepage distances between input and output: Following special test according to EN 60950-1 has been carried out. EN60950-1:2006 clauses 2.10.5.1 and 2.10.8. Thermal cycling test 10 cycles, each cycle: 68h 110°C, 1h 25°C, 2h 0°C, 1h 25°C. After the cycle test a humidity treatment of 48h. Electric strength tests at 4800V/1 minute between input and output parts. (The part "2h 0°C" of the test was replaced "2h -55°C" by manufacturers request) Enclosure of the component withstands electric strength test of 1500V/1 minute and it fulfils the requirement of basic insulation. Enclosure 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 the data sheet are not exceeded in normal operation or under fault conditions in the appliance.

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