

Product	Optocouplers
Applicant	Fairchild Semiconductor Pte Ltd 54 Serangoon North Ave 4#02-01 555854 Singapore Singapore
Manufacturer	Fairchild Semiconductor 1272 Borregas Avenue Sunny Vale, CA 94089 USA
Factory	Lite-On Electronics (Thailand) Co. Ltd 38/4 Moo 1, Rangsit-Ongkarak Road, Bunyeetoh Tanyaburi Pathumthani 12130 Thailand
Ratings	Operating temperature 115°C
Trade mark	F or ON
Model / Type Ref.	FOD814
Principal characteristics	
A sample of the product was tested and found to be in conformity with	TRON EN 60065:2014 OFF EN 60950-1:2006;A11;A1;A12;A2
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	See page 3
Additional model(s)	(10) See page 2

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Certification Department

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Additional model(s)

Product Optocouplers
Pos. No 1
Model / Type Ref. FOD817D
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 2
Model / Type Ref. FOD817X
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 3
Model / Type Ref. FOD815
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 4
Model / Type Ref. FOD816
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 5
Model / Type Ref. FOD817
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 6
Model / Type Ref. FOD852
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

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Product Optocouplers
Pos. No 7
Model / Type Ref. FOD814A
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 8
Model / Type Ref. FOD817A
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 9
Model / Type Ref. FOD817B
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

Product Optocouplers
Pos. No 10
Model / Type Ref. FOD817C
Trade mark (if different from page 1)
Rating Operating temperature 115°C
Principal characteristics

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.

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