

Product	Optocoupler
Applicant	Everlight Electronics Co., Ltd. No.6-8, Zhonghua Rd., Shulin Dist., New Taipei City 23860 Taiwan
Manufacturer	Everlight Electronics Co., Ltd. No.6-8, Zhonghua Rd., Shulin Dist., New Taipei City 23860 Taiwan
Factory	Everlight Electronic (China) Co., Ltd. No. 2135 Zhong Shan North Rd. Wujiang Economy Development Zone (Yun Xi Area), Songling Town, Wujiang City, Jiang Su China <input type="checkbox"/> See next page(s)
Ratings	250Vrms
Trade mark	EVERLIGHT
Model / Type Ref.	4N5X.
Principal characteristics	HIGH VOLTAGE PHOTOTRANSISTOR Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. X = Part no. (0, 1, 2, 3, 4, 5, 6, 7, 8, 9) Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100°C <input type="checkbox"/> See next page(s)
A sample of the product was tested and found to be in conformity with	TRON EN 60065:2002;A1;A11;A2;A12 IEC 60065(ed.7);am1;am2 OFF EN 60950-1:2006;A11;A1;A12;A2 IEC 60950-1(ed.2);am1;am2 LITE EN 61347-1:2008;A1 IEC 61347-1(ed.2);am1 HOUS EN 60335-1:2012 IEC 60335-1(ed.5)
Replaces	This certificate replaces previous certificate No. P11214766/A3, due to updating of standard.

Date of issue 08-04-2014

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Certification Department**Nemko AS**Gaustadalléen 30, P.O. Box 73 Blindern, 0314 Oslo, Norway
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ENTERPRISE NUMBER NO974404532

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 next page(s)

Additional model(s)

See next page(s)

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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	1
Model / Type Ref.	EL0601.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED LOGIC GATE Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C</p>
Product	Optocoupler
Pos. No	2
Model / Type Ref.	EL0611.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED LOGIC GATE Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C</p>

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Product	Optocoupler
Pos. No	3
Model / Type Ref.	EL0700.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	SINGLE CHANNEL SPLIT DARLINGTON Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C
Product	Optocoupler
Pos. No	4
Model / Type Ref.	EL050L.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	SINGLE CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C

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Product	Optocoupler
Pos. No	5
Model / Type Ref.	EL060L.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED LOGIC GATE</p> <p>Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.</p> <p>Maximum operating temperature: 100 degrees C</p>
Product	Optocoupler
Pos. No	6
Model / Type Ref.	EL0701.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL SPLIT DARLINGTON</p> <p>Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.</p> <p>Maximum operating temperature: 100 degrees C</p>

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Product Optocoupler
Pos. No 7
Model / Type Ref. EL101X.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics OPTOCOUPLER
Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. Tested for 5 000 m. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.
Maximum operating temperature: 110 degrees C
The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9)

Product Optocoupler
Pos. No 8
Model / Type Ref. EL357L.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics OPTOCOUPLER
Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.
Maximum operating temperature: 110 degrees C

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Product	Optocoupler
Pos. No	9
Model / Type Ref.	EL355L.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	PHOTODARLINGTON Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C
Product	Optocoupler
Pos. No	10
Model / Type Ref.	EL354L.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	OPTOCOUPLER(AC Type) Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C

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Product	Optocoupler
Pos. No	11
Model / Type Ref.	EL0661.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	DUAL CHANNEL HIGH SPEED LOGIC GATE Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C
Product	Optocoupler
Pos. No	12
Model / Type Ref.	ELD205.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	Dual channel Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C.

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Product	Optocoupler
Pos. No	13
Model / Type Ref.	ELD206.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	Dual channel Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C.
Product	Optocoupler
Pos. No	14
Model / Type Ref.	ELD211.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	Dual channel Optocoupler. Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C.

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Product	Optocoupler
Pos. No	15
Model / Type Ref.	EL061A.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED LOGIC GATE Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C</p>
Product	Optocoupler
Pos. No	16
Model / Type Ref.	EL061N.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED LOGIC GATE Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C</p>

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Product Optocoupler
Pos. No 17
Model / Type Ref. CNY171-X.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.
Maximum operating temperature: 110 degrees C
The symbol "X" in type denotes X = Part no. (1,2,3,4)

Product Optocoupler
Pos. No 18
Model / Type Ref. CNY17F1-X.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.
Maximum operating temperature: 110 degrees C
The symbol "X" in type denotes X = Part no. (1,2,3,4)

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Product Optocoupler
Pos. No 19
Model / Type Ref. EL610.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 6.0mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C.

Product Optocoupler
Pos. No 20
Model / Type Ref. EL852.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics HIGH VOLTAGE PHOTODARLINGTON
Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C.

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Product	Optocoupler
Pos. No	21
Model / Type Ref.	EL851.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	HIGH VOLTAGE PHOTOTRANSISTOR. Minimum external creepage distance is measured to 7.7mm, minimum internal creepage distance is measured to 5.5mm and minimum distance through insulation is measured to 0.5mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C.
Product	Optocoupler
Pos. No	22
Model / Type Ref.	EL073X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	DUAL CHANNEL SPLIT DARLINGTON Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C The symbol "X" in type denotes X = Part no. (0,1)

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Product	Optocoupler
Pos. No	23
Model / Type Ref.	EL111X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	OPTOCOUPLER. Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9)
Product	Optocoupler
Pos. No	24
Model / Type Ref.	EL161X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	OPTOCOUPLER(AC Type). Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9)

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Product	Optocoupler
Pos. No	25
Model / Type Ref.	EL151X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	PHOTODARLINGTON. Minimum external creepage distance is measured to 8.1mm, minimum internal creepage distance is measured to 5.2mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110°C The symbol "X" in type denotes X = Part no. (0,1,2,3,4,5,6,7,8,9)
Product	Optocoupler
Pos. No	26
Model / Type Ref.	ELM301X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	RANDOM PHASE PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)

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Product	Optocoupler
Pos. No	27
Model / Type Ref.	ELM302X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	RANDOM PHASE PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)
Product	Optocoupler
Pos. No	28
Model / Type Ref.	ELM305X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	RANDOM PHASE PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)

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ENTERPRISE NUMBER NO974404532

Product	Optocoupler
Pos. No	29
Model / Type Ref.	ELM307X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	RANDOM PHASE PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)
Product	Optocoupler
Pos. No	30
Model / Type Ref.	ELM303X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	ZERO-CROSSING PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)

Date of issue 08-04-2014



Eunhye Song
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Product	Optocoupler
Pos. No	31
Model / Type Ref.	ELM304X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	ZERO-CROSSING PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)
Product	Optocoupler
Pos. No	32
Model / Type Ref.	ELM306X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	ZERO-CROSSING PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute.The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)

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Product	Optocoupler
Pos. No	33
Model / Type Ref.	EL053L.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	DUAL CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C
Product	Optocoupler
Pos. No	34
Model / Type Ref.	ELM308X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	ZERO-CROSSING PHOTOTRIAC Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C. The symbol "X" in type denotes X = Part no. (0,1,2,3,4)

Date of issue 08-04-2014



Eunhye Song
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Product Optocoupler
Pos. No 35
Model / Type Ref. EL451.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics HIGH VOLTAGE PHOTOTRANSISTOR
Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C.

Product Optocoupler
Pos. No 36
Model / Type Ref. EL452.
Trade mark (if different from page 1)
Rating 250Vrms
Principal characteristics HIGH VOLTAGE PHOTODARLINGTON
Minimum external creepage distance is measured to 5.0mm, minimum internal creepage distance is measured to 4.0mm and minimum distance through insulation is measured to 0.4mm. Tested for reinforced insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 110 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 4800Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 110 degrees C.

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Product	Optocoupler
Pos. No	37
Model / Type Ref.	EL0551.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	DUAL CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C
Product	Optocoupler
Pos. No	38
Model / Type Ref.	EL053X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	DUAL CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C The symbol "X" in type denotes X = Part no. (0,1,3)

Date of issue 08-04-2014



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Product	Optocoupler
Pos. No	39
Model / Type Ref.	EL063X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	DUAL CHANNEL HIGH SPEED LOGIC GATE Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C The symbol "X" in type denotes X = Part no. (0,1,L,A,N)
Product	Optocoupler
Pos. No	40
Model / Type Ref.	EL0500.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	SINGLE CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C

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Product	Optocoupler
Pos. No	41
Model / Type Ref.	EL0501.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C</p>
Product	Optocoupler
Pos. No	42
Model / Type Ref.	EL0452.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED TRANSISTOR Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape. Maximum operating temperature: 100 degrees C</p>

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Product	Optocoupler
Pos. No	43
Model / Type Ref.	EL045X.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED TRANSISTOR</p> <p>Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.</p> <p>Maximum operating temperature: 100 degrees C.</p> <p>The symbol "X" in type denotes X = Part no. (3,4)</p>
Product	Optocoupler
Pos. No	44
Model / Type Ref.	EL0600.
Trade mark (if different from page 1)	
Rating	250Vrms
Principal characteristics	<p>SINGLE CHANNEL HIGH SPEED LOGIC GATE</p> <p>Minimum external creepage distance is measured to 4.4mm, minimum internal creepage distance is measured to 3.5mm and minimum distance through insulation is measured to 0.4mm. Tested for basic and supplementary insulation. Thermal cycling test, 10 cycles. Each cycle: 68h in 100 degree C, 1h in 25degree C, 2h in 0 degree C and 1h in 25 degree C. After the cycling test a humidity test for 48h in 93% relative humidity. Electric strength test between input and output 2400Vac/1 minute. The symbol "." in type designation may be blank, A~Z or numbers, and denote different pin shape.</p> <p>Maximum operating temperature: 100 degrees C</p>

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