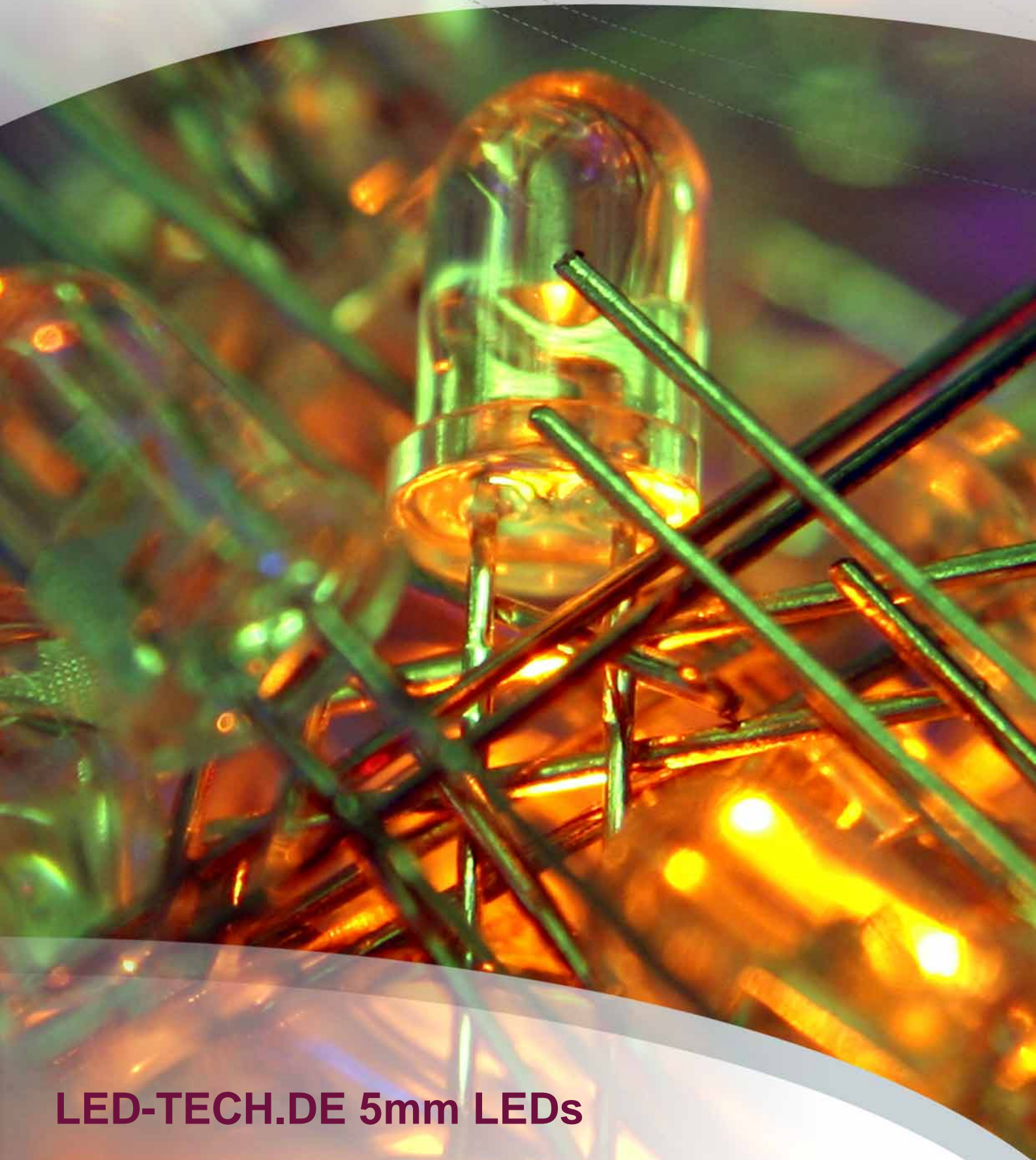


LED-TECH.DE

OPTOELECTRONICS



LED-TECH.DE 5mm LEDs

Standard LED (white)



Part Number: LT-0006

Diameter: 5mm

Viewing Angle: 50°

Housing Color: clear

Emitting Color: white

X: 0,310

Y: 0,310

MCD min.: 7380 mcd

MCD typ.: 8890 mcd

MCD max.: 10400 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 2,65 V

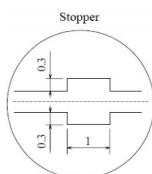
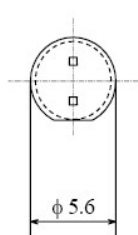
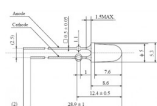
V max.: 3,50 V

Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantee a steady top production standard up to the last detail that no second manufacturer provides that way.

Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!



Superbright LED (blue)



Part Number: LT-0011

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: blue

X: 0,130

Y: 0,130

MCD min.: 4120 mcd

MCD typ.: 4800 mcd

MCD max.: 5760 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,6 V

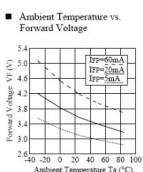
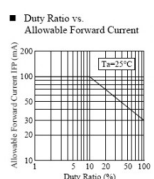
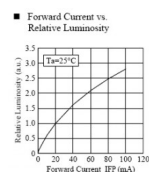
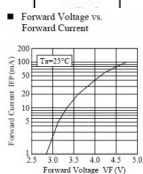
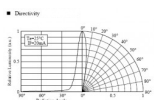
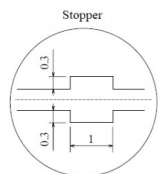
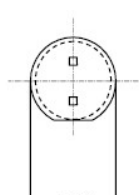
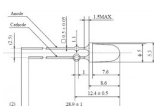
V max.: 4,0 V

Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantee a steady top production standard up to the last detail that no second manufacturer provides that way.

Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!



Standard LED (blue)



Part Number: LT-0013

Diameter: 5mm

Viewing Angle: 45°

Housing Color: clear

Emitting Color: blue

X: 0,130

Y: 0,130

MCD min.: 960 mcd

MCD typ.: 1160 mcd

MCD max.: 1380 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,6 V

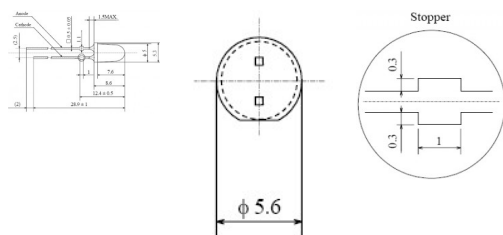
V max.: 4,0 V

Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

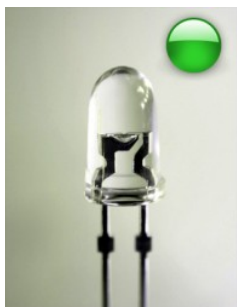
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantee a steady top production standard up to the last detail that no second manufacturer provides that way.

Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!



Ultrabright LED (green)



Part Number: LT-0017

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: green

X: 0,170

Y: 0,170

MCD min.: 13800 mcd

MCD typ.: 16000 mcd

MCD max.: 19500 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,5 V

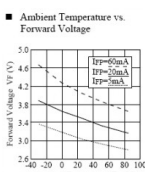
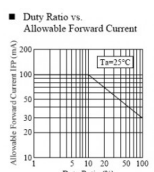
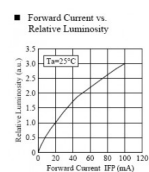
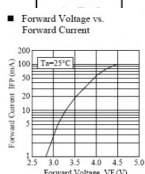
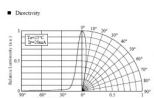
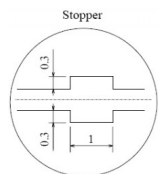
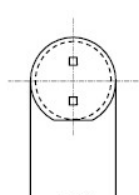
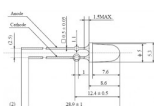
V max.: 4,0 V

Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantee a steady top production standard up to the last detail that no second manufacturer provides that way.

Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!



Ultrabright LED (blue)



Extraordinary branded LED of highest quality. Unbeatable in brightness and optimal for indoor and outdoor use with best price-performance ratio.

Part Number: LT-0025

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: blue

Nanometer: 470

MCD min.: 5800 mcd

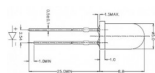
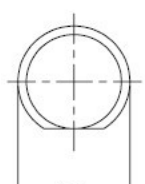
MCD typ.: 7000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,8 V

V max.: 3,4 V



Kundenprojekt mit dieser LED
Customer Project with this LED

Ultrabright LED (yellow)



Extraordinary branded LED of highest quality. Unbeatable in brightness and optimal for indoor and outdoor use with best price-performance ratio.

Part Number: LT-0027

Diameter: 5mm

Viewing Angle: 13°

Housing Color: clear

Emitting Color: yellow

Nanometer: 588

MCD min.: 8000 mcd

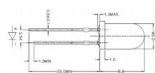
MCD typ.: 10000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,8 V

V max.: 2,4 V



Special Effect LED (pink)



This new superbright pink 5mm LED uses a blue 470nm Chip which is coated with new red phosphor of 630nm.

The subsequent mixed color is much more brilliant than it was illuminated from former types.

Part Number: LT-0031

Diameter: 5mm

Viewing Angle: 25°

Housing Color: clear

Emitting Color: pink

X: 0,340

Y: 0,340

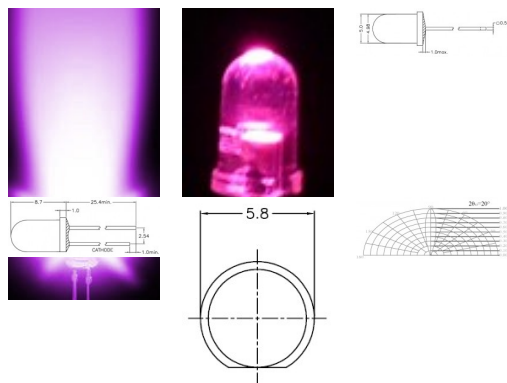
MCD typ.: 3000 mcd

MCD max.: 4000 mcd

mA typ.: 30 mA

V typ.: 2,8 V

V max.: 3,4 V



Ultrabright LED (white)



Bestseller 2007 - over 1 Million pcs. sold!

This 5mm ultrabright LED proves that we can offer real bargains. Customers favourite project LED 2007 is now offered in top rank U (even in large quantities for industrial use).

The LED works with a GaN chip of typ. 15.000 - 18.000mcd (measured and proofed). The selection is very good and even useable for LED stripe or cluster applications. Try it!

Part Number: LT-0033

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: white

X: 0.30

Y: 0.30

MCD typ.: 16500 mcd

MCD max.: 22000 mcd

Lumen typ.: 2,9 mcd

Lumen max.: 3,3 mcd

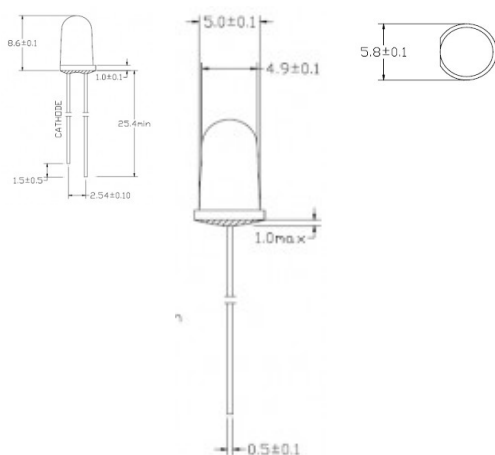
mA test.: 20 mcd

mA typ.: 30 mA

mA max.: 100 mA

V typ.: 3,2 V

V max.: 3,8 V



Ultrabright LED (red)



- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0066

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: red

Nanometer: 635

MCD typ.: 10000 mcd

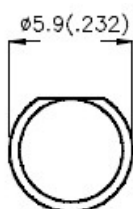
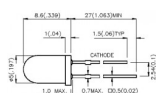
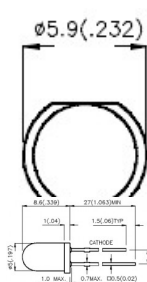
MCD max.: 12000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,0 V

V max.: 2,5 V



Standard LED (yellow)



- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0068

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: yellow

Nanometer: 588

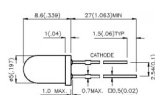
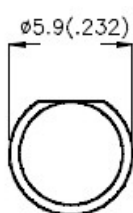
MCD typ.: 1500 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,0 V

V max.: 2,5 V



Ultrabright LED (green)



Extraordinary branded LED of highest quality. Unbeatable in brightness and optimal for indoor and outdoor use with best price-performance ratio.

Part Number: LT-0282

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: green

Nanometer: 525

MCD typ.: 16500 mcd

MCD max.: 22000 mcd

mA test.: 20 mcd

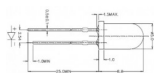
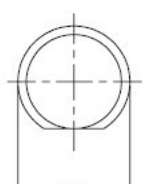
mA typ.: 20 mA

mA max.: 30 mA

V typ.: 3,3 V

V max.: 4,0 V

V sperr.: 5,0 V



Duo LED (Superbright) (red / green)



3pin 5mm Double LED with common cathode with two main colors and one mix color.

- Nanometer: R=635 / G=568
- MCD typ.: R=1600 / G=200
- V typ.: R=1,95 / G=2,2
- V max.: R=2,5 / G=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-0283

Diameter: 5mm

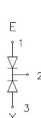
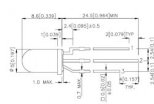
Viewing Angle: 24°

Housing Color: clear

Emitting Color: red / green

mA test.: 20 mcd

mA typ.: 30 mA



Duo LED (red / green)



3pin 5mm Double LED with common cathode with two main colors and one mix color.

- Nanometer: R=635 / G=568
- MCD typ.: R=150 / G=150
- V typ.: R=2,0 / G=2,2
- V max.: R=2,5 / G=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-0284

Diameter: 5mm

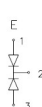
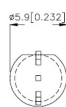
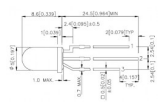
Viewing Angle: 24°

Housing Color: clear

Emitting Color: red / green

mA test.: 20 mcd

mA typ.: 30 mA



Duo LED (red / yellow)



3pin 5mm Double LED with common cathode with two main colors and one mix color.

- Nanometer: R=635 / Y=588
- MCD typ.: R=150 / Y=60
- V typ.: R=2,0 / Y=2,1
- V max.: R=2,5 / Y=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-0285

Diameter: 5mm

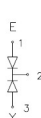
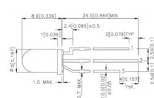
Viewing Angle: 24°

Housing Color: clear

Emitting Color: red / yellow

mA test.: 20 mcd

mA typ.: 30 mA



Duo LED (green / yellow)



3pin 5mm Double LED with common cathode with two main colors and one mix color.

- Nanometer: G=568 / Y=588
- MCD typ.: G=150 / Y=60
- V typ.: G=2,2 / Y=2,1
- V max.: G=2,5 / Y=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-0286

Diameter: 5mm

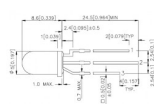
Viewing Angle: 24°

Housing Color: clear

Emitting Color: green / yellow

mA test.: 20 mcd

mA typ.: 30 mA



Blink LED (yellow)



Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

This blinking LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-0300

Diameter: 5mm

Viewing Angle: 60°

Housing Color: diffused

Emitting Color: yellow

Nanometer: 588

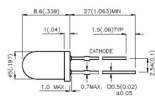
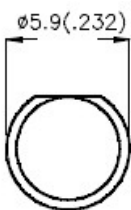
MCD typ.: 200 mcd

MCD max.: 220 mcd

mA typ.: 22 mA

V typ.: 3,5 V

V max.: 5,0 V



Blink LED (green)



Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

This blinking LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-0301

Diameter: 5mm

Viewing Angle: 60°

Housing Color: diffused

Emitting Color: green

Nanometer: 568

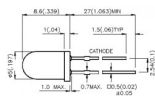
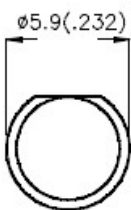
MCD typ.: 20 mcd

MCD max.: 30 mcd

mA typ.: 22 mA

V typ.: 3,5 V

V max.: 5,0 V



Blink LED (blue)



Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

This blinking LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1.5-3Hz

Part Number: LT-0302

Diameter: 5mm

Viewing Angle: 60°

Housing Color: diffused

Emitting Color: blue

Nanometer: 468

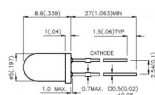
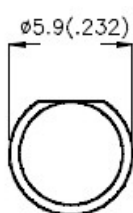
MCD typ.: 280 mcd

MCD max.: 700 mcd

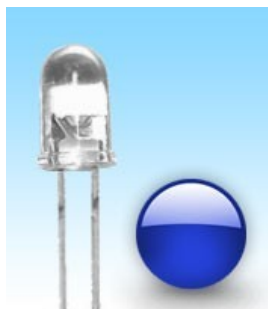
mA typ.: 15 mA

V typ.: 3,5 V

V max.: 5,0 V



Superbright LED (blue)



- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0323

Diameter: 5mm

Viewing Angle: 11°

Housing Color: clear

Emitting Color: blue

Nanometer: 470

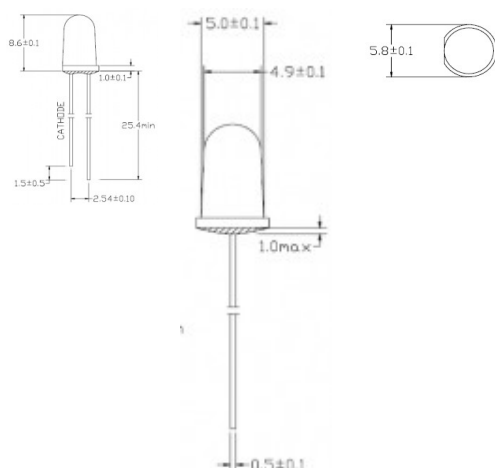
MCD typ.: 8000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,8 V

V max.: 3,4 V



Ultrabright LED (red)



- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0324

Diameter: 5mm

Viewing Angle: 11°

Housing Color: clear

Emitting Color: red

Nanometer: 620

MCD min.: 5000 mcd

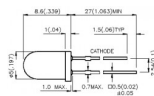
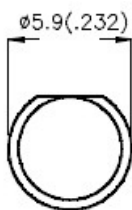
MCD typ.: 6000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,8 V

V max.: 2,4 V



Superbright LED (golden white)



The name YoIDal is currently resounded throughout every land. Their new LEDs are a harmonical alternative to common (cold) white LEDs. Qualified for modelling and ambience of living space. If you have any questions regarding alternative indoor and outdoor lighting please let us know.

Part Number: LT-0327

Diameter: 5mm

Viewing Angle: 30°

Housing Color: clear

Emitting Color: golden white

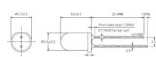
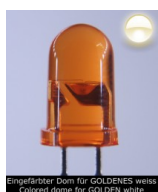
MCD typ.: 2800 mcd

MCD max.: 3500 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,2 V



Ultrabright LED (sunny white)



The name YoIDal is currently resounded throughout every land. Their new LEDs are a harmonical alternative to common (cold) white LEDs. Qualified for modelling and ambience of living space. If you have any questions regarding alternative indoor and outdoor lighting please let us know.

Part Number: LT-0328

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: sunny white

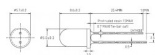
MCD typ.: 9200 mcd

MCD max.: 11000 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,2 V



Ultrabright LED (warm white)



- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0333

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: warm white

MCD min.: 12000 mcd

MCD typ.: 15000 mcd

MCD max.: 18000 mcd

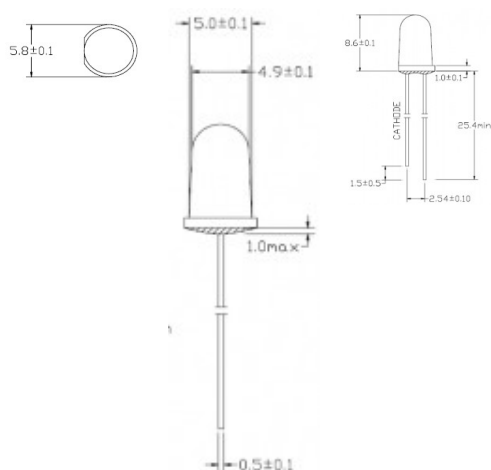
Kelvin typ.: 3000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,8 V

V max.: 3,4 V



Standard LED (orange)



The new low cost LED with a very attractive price-performance ratio. Bottom price now!

Part Number: LT-0345

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: orange

Nanometer: 601

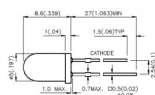
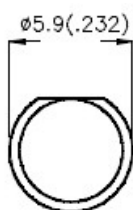
MCD typ.: 3500 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,0 V

V max.: 2,5 V



Superbright LED (red)



- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0360

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: red

Nanometer: 622

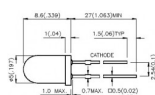
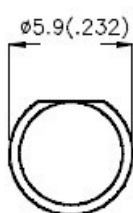
MCD typ.: 4000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,8 V

V max.: 2,4 V



IR LED (infrared)



The new infrared LED with 50mA (max). The capacitance is 90pF at $f = 1$ MHz.

Part Number: LT-0428

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: infrared

Nanometer: 880

MCD min.: 10 mcd

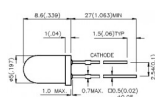
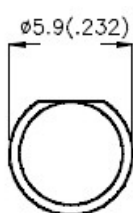
MCD typ.: 30 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,3 V

V max.: 1,6 V



Superbright LED (red)



The new low cost LED with a very attractive price-performance ratio. Bottom price now!

Part Number: LT-0552

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: red

Nanometer: 621

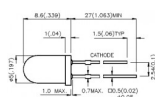
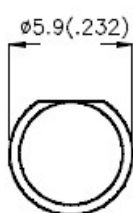
MCD typ.: 5500 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,0 V

V max.: 2,5 V



IR LED (infrared)



The new infrared LED with 50mA (max). The capacitance is 30pF at $f = 1$ MHz.

Part Number: LT-0592

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: infrared

Nanometer: 850

MCD min.: 10 mcd

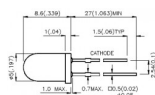
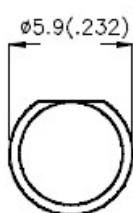
MCD typ.: 40 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,4 V

V max.: 1,6 V



Superbright RGB LED (CC) (red / green / blue)



5mm superbright RGB LED with common cathode (CC) and 6 times brighter than the standart types. 4pin design for easy controlling and individual colors.

- Nanometer: R=626 / G=525 / B=470
- MCD typ.: R=3200 / G=4000 / B=2000
- MCD max.: R=4000 / G=2000 / B=4000
- V typ.: R=2,05 / G=3,6 / B=3,6

Part Number: LT-0672

Diameter: 5mm

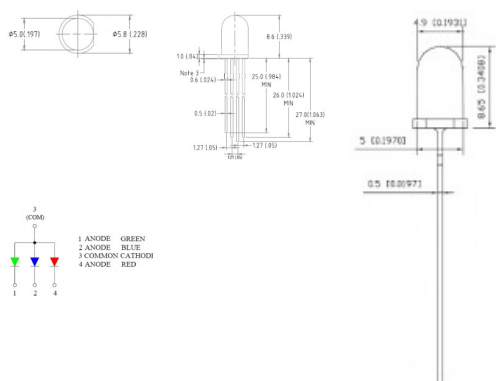
Viewing Angle: 25°

Housing Color: transparent

Emitting Color: red / green / blue

mA test.: 20 mcd

mA typ.: 35 mA



Flashing LED (blue)



Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecatcher applications. Further advantage are long lifetime and industry standard quality!

This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-1022

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: blue

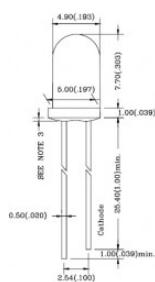
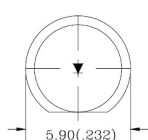
Nanometer: 470

MCD max.: 9000 mcd

mA typ.: 20 mA

V typ.: 3,3 V

V max.: 4,0 V



Flashing LED (green)



Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecatcher applications. Further advantage are long lifetime and industry standard quality!

This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-1023

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: green

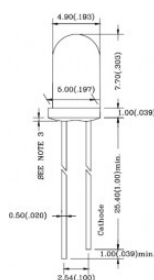
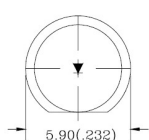
Nanometer: 570

MCD max.: 15000 mcd

mA typ.: 20 mA

V typ.: 3,3 V

V max.: 4,0 V



Flashing LED (yellow)



Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecatcher applications. Further advantage are long lifetime and industry standard quality!

This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-1025

Diameter: 5mm

Viewing Angle: 20°

Housing Color: clear

Emitting Color: yellow

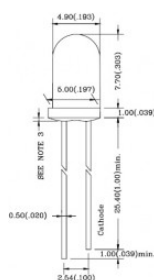
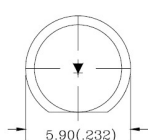
Nanometer: 588

MCD max.: 10000 mcd

mA typ.: 20 mA

V typ.: 2,0 V

V max.: 2,5 V



Wide Beam LED (white)



5mm wide beam LED with 70° viewing angle with and diffused dome. The LEDs of the wide beam series illuminate very homogeneous and are perfect for signal applications where visibility from all sides is necessary or for surface illumination where smooth lighting without any spots is most important.

The WB series LEDs (see other colors) fit very good to each other because of their almost similar brightness. This is very useful in multicolor applications, too. The LED can be run in pulsed use on up to 100mA (Duty=0.1mS, 1kHz). The maximum light output is really high but depending on the level of workload the energy consumption should meet the applications thermal design.

Part Number: LT-1034

Diameter: 5mm

Viewing Angle: 70°

Housing Color: diffused

Emitting Color: white

MCD typ.: 2000 mcd

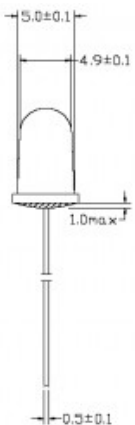
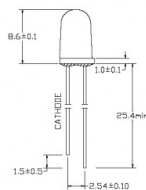
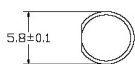
Kelvin typ.: 6500 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,8 V

V max.: 3,4 V



Wide Beam LED (blue)



5mm wide beam LED with 70° viewing angle and diffused dome. The LEDs of the wide beam series illuminate very homogeneous and are perfect for signal applications where visibility from all sides is necessary or for surface illumination where smooth lighting without any spots is most important.

The WB series LEDs (see other colors) fit very good to each other because of their almost similar brightness. This is very useful in multicolor applications, too. The LED can be run in pulsed use on up to 100mA (Duty=0.1mS, 1kHz). The maximum light output is really high but depending on the level of workload the energy consumption should meet the applications thermal design.

Part Number: LT-1035

Diameter: 5mm

Viewing Angle: 70°

Housing Color: diffused

Emitting Color: blue

Nanometer: 470

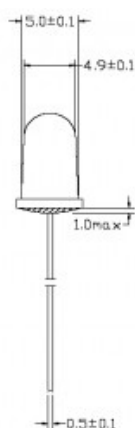
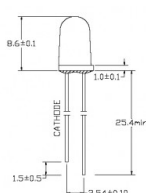
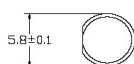
MCD typ.: 1000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 2,8 V

V max.: 3,4 V



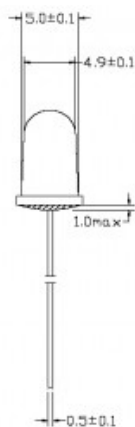
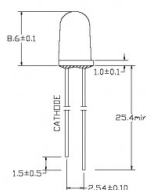
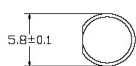
Wide Beam LED (green)



5mm wide beam LED with 70° viewing angle and diffused dome. The LEDs of the wide beam series illuminate very homogeneous and are perfect for signal applications where visibility from all sides is necessary or for surface illumination where smooth lighting without any spots is most important.

The WB series LEDs (see other colors) fit very good to each other because of their almost similar brightness. This is very useful in multicolor applications, too. The LED can be run in pulsed use on up to 100mA (Duty=0.1mS, 1kHz). The maximum light output is really high but depending on the level of workload the energy consumption should meet the applications thermal design.

Part Number: LT-1036
 Diameter: 5mm
 Viewing Angle: 70°
 Housing Color: diffused
 Emitting Color: green
 Nanometer: 525
 MCD typ.: 1500 mcd
 mA test.: 20 mcd
 mA typ.: 20 mA
 V typ.: 2,8 V
 V max.: 3,4 V



Wide Beam LED (red)



5mm wide beam LED with 70° viewing angle and diffused dome. The LEDs of the wide beam series illuminate very homogeneous and are perfect for signal applications where visibility from all sides is necessary or for surface illumination where smooth lighting without any spots is most important.

The WB series LEDs (see other colors) fit very good to each other because of their almost similar brightness. This is very useful in multicolor applications, too. The LED can be run in pulsed use on up to 100mA (Duty=0.1mS, 1kHz). The maximum light output is really high but depending on the level of workload the energy consumption should meet the applications thermal design.

Part Number: LT-1037

Diameter: 5mm

Viewing Angle: 70°

Housing Color: diffused

Emitting Color: red

Nanometer: 620

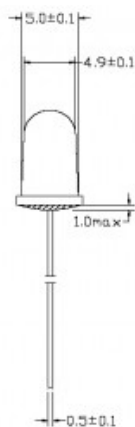
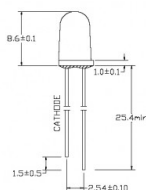
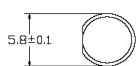
MCD typ.: 1000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,8 V

V max.: 2,4 V



Wide Beam LED (yellow)



5mm wide beam LED with 70° viewing angle and diffused dome. The LEDs of the wide beam series illuminate very homogeneous and are perfect for signal applications where visibility from all sides is necessary or for surface illumination where smooth lighting without any spots is most important.

The WB series LEDs (see other colors) fit very good to each other because of their almost similar brightness. This is very useful in multicolor applications, too. The LED can be run in pulsed use on up to 100mA (Duty=0.1mS, 1kHz). The maximum light output is really high but depending on the level of workload the energy consumption should meet the applications thermal design.

Part Number: LT-1038

Diameter: 5mm

Viewing Angle: 70°

Housing Color: diffused

Emitting Color: yellow

Nanometer: 590

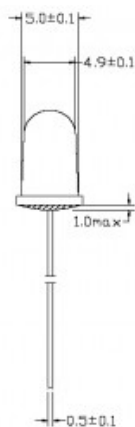
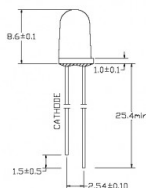
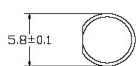
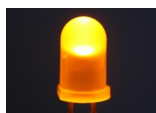
MCD typ.: 1000 mcd

mA test.: 20 mcd

mA typ.: 20 mA

V typ.: 1,8 V

V max.: 2,4 V



Duo LED (Superbright) with common Anode (red / yellow)



3pin 5mm Double LED with common anode with two main colors and one mix color.

- Nanometer: R=635 / G=590
- MCD typ.: R=35 / G=12
- V typ.: R=1,95 / G=2,2
- V max.: R=2,5 / G=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-1065

Diameter: 5mm

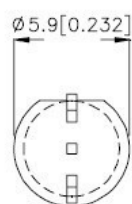
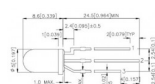
Viewing Angle: 24°

Housing Color: clear

Emitting Color: red / yellow

mA test.: 20 mcd

mA typ.: 30 mA



Duo LED with common Anode (red / yellow)



3pin 5mm Double LED with common anode with two main colors and one mix color.

- Nanometer: R=625 / Y=588
- MCD typ.: R=2.5 / Y=2
- V typ.: R=2,0 / Y=2,1
- V max.: R=2,5 / Y=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-1092

Diameter: 5mm

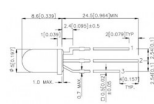
Viewing Angle: 24°

Housing Color: clear

Emitting Color: red / yellow

mA test.: 20 mcd

mA typ.: 30 mA



Mini Constant Current Power Supply (10mA, up to 38V) with rectifier



Part Number: LT-1183

mA typ.: 10 mA

V typ.: 38 V

2008 Edition with many innovations!

This new and unbelievable small constant current power supply for your LEDs works with the above mentioned output current. The forward voltage is secondary. This guarantees a homogeneous brightness through the whole forward voltage range and a maximum lifetime to the connected LEDs.

The usage and operating range:

The usage is really very simple. You only have to check that the minimum input voltage is 3,8V higher than the common LED forward voltages and the maximum input voltage should not be more than 38V above the minimum input voltage. Please also have a look at the below mentioned examples.

What is new?

- Smaller housing for bigger range of applications
- With bridge rectifier to protect from wrong polarity
- Thermal protections: Self adjusting when too hot

Further Data:

- Dimensions: 16.0 x 7.5 x 3.0mm
- Min. voltage: 3V DC oder 2V AC
- Max. voltage: 38V DC oder 26V AC
- Max. power consumption: 500mW
- Operating temperature: -25°C up to +125°C
- Input: protection against wrong polarity
- Output: wrong polarity & short circuit protected
- Contacts: Soldering pads
- Drop voltage: 3,8V
- Delivery: Completely mounted & tested

How to connect:

- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:

You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as V_f in common datasheets). The input voltage can change from 10,2V ($3,2 + 3,2 + 3,8$) till 38V ($10,2 + 38,0$ -> 38V = Max. of power supply).

Example 2:

You are going to connect one white LED (3,5V). The input voltage can change from 7,3V ($3,5 + 3,8$) till 38V ($7,3 + 38,0$ -> 38V = Max. of power supply).



Mini Constant Current Power Supply (20mA, up to 38V) with rectifier



Part Number: LT-1184

mA typ.: 20 mA

V typ.: 38 V

2008 Edition with many innovations!

This new and unbelievable small constant current power supply for your LEDs works with the above mentioned output current. The forward voltage is secondary. This guarantees a homogeneous brightness through the whole forward voltage range and a maximum lifetime to the connected LEDs.

The usage and operating range:

The usage is really very simple. You only have to check that the minimum input voltage is 3,8V higher than the common LED forward voltages and the maximum input voltage should not be more than 27V above the minimum input voltage. Please also have a look at the below mentioned examples.

What is new?

- Smaller housing for bigger range of applications
- With bridge rectifier to protect from wrong polarity
- Thermal protections: Self adjusting when too hot

Further Data:

- Dimensions: 16.0 x 7.5 x 3.0mm
- Min. voltage: 3V DC oder 2V AC
- Max. voltage: 38V DC oder 26V AC
- Max. power consumption: 500mW
- Operating temperature: -25°C up to +125°C
- Input: protection against wrong polarity
- Output: wrong polarity & short circuit protected
- Contacts: Soldering pads
- Drop voltage: 3,8V
- Delivery: Completely mounted & tested

How to connect:

- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:

You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as V_f in common datasheets). The input voltage can change from 10,2V ($3,2 + 3,2 + 3,8$) till 37,2V ($10,2 + 27,0$).

Example 2:

You are going to connect one white LED (3,5V). The input voltage can change from 7,3V ($3,5 + 3,8$) till 34,3V ($7,3 + 27,0$).



Mini Constant Current Power Supply (30mA, up to 38V) with rectifier



Part Number: LT-1185

mA typ.: 30 mA

V typ.: 38 V

2008 Edition with many innovations!

This new and unbelievable small constant current power supply for your LEDs works with the above mentioned output current. The forward voltage is secondary. This guarantees a homogeneous brightness through the whole forward voltage range and a maximum lifetime to the connected LEDs.

The usage and operating range:

The usage is really very simple. You only have to check that the minimum input voltage is 3,8V higher than the common LED forward voltages and the maximum input voltage should not be more than 18V above the minimum input voltage. Please also have a look at the below mentioned examples.

What is new?

- Smaller housing for bigger range of applications
- With bridge rectifier to protect from wrong polarity
- Thermal protections: Self adjusting when too hot

Further Data:

- Dimensions: 16.0 x 7.5 x 3.0mm
- Min. voltage: 3V DC oder 2V AC
- Max. voltage: 38V DC oder 26V AC
- Max. power consumption: 500mW
- Operating temperature: -25°C up to +125°C
- Input: protection against wrong polarity
- Output: wrong polarity & short circuit protected
- Contacts: Soldering pads
- Drop voltage: 3,8V
- Delivery: Completely mounted & tested

How to connect:

- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:

You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as V_f in common datasheets). The input voltage can change from 10,2V ($3,2 + 3,2 + 3,8$) till 28,2V ($10,2 + 18,0$).

Example 2:

You are going to connect one white LED (3,5V). The input voltage can change from 7,3V ($3,5 + 3,8$) till 25,3V ($7,3 + 18,0$).



Mini Constant Current Power Supply (10mA, up to 37V)



Part Number: LT-1212

mA typ.: 10 mA

V typ.: 37 V

2008 Edition with many innovations!

This new and unbelievable small constant current power supply for your LEDs works with the above mentioned output current. The forward voltage is secondary. This guarantees a homogeneous brightness through the whole forward voltage range and a maximum lifetime to the connected LEDs.

The usage and operating range:

The usage is really very simple. You only have to check that the minimum input voltage is 2,5V higher than the common LED forward voltages and the maximum input voltage should not be more than 37V above the minimum input voltage. Please also have a look at the below mentioned examples.

What is new?

- Smaller housing for bigger range of applications
- Thermal protections: Self adjusting when too hot

Further Data:

- Dimensions: 16.0 x 5,5 x 2,5mm
- Min. voltage: 1,5V DC
- Max. voltage: 37V DC
- Max. power consumption: 500mW
- Operating temperature: -25°C up to +125°C
- Output: wrong polarity & short circuit protected
- Contacts: Soldering pads
- Drop voltage: 2,5V
- Delivery: Completely mounted & tested

How to connect:

- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:

You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as V_f in common datasheets). The input voltage can change from 8,9V ($3,2 + 3,2 + 2,5$) till 37V ($8,9 + 37,0 > 37V = \text{Max. of power supply}$).

Example 2:

You are going to connect one white LED (3,5V). The input voltage can change from 6,0V ($3,5 + 2,5$) till 37V ($6,0 + 37,0 > 37V = \text{Max. of power supply}$).



Mini Constant Current Power Supply (20mA, up to 37V)



Part Number: LT-1213

mA typ.: 20 mA

V typ.: 37 V

2008 Edition with many innovations!

This new and unbelievable small constant current power supply for your LEDs works with the above mentioned output current. The forward voltage is secondary. This guarantees a homogeneous brightness through the whole forward voltage range and a maximum lifetime to the connected LEDs.

The usage and operating range:

The usage is really very simple. You only have to check that the minimum input voltage is 2,5V higher than the common LED forward voltages and the maximum input voltage should not be more than 27V above the minimum input voltage. Please also have a look at the below mentioned examples.

What is new?

- Smaller housing for bigger range of applications
- Thermal protections: Self adjusting when too hot

Further Data:

- Dimensions: 16.0 x 5,5 x 2,5mm
- Min. voltage: 1,5V DC
- Max. voltage: 37V DC
- Max. power consumption: 500mW
- Operating temperature: -25°C up to +125°C
- Output: wrong polarity & short circuit protected
- Contacts: Soldering pads
- Drop voltage: 2,5V
- Delivery: Completely mounted & tested



How to connect:

- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:

You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as V_f in common datasheets). The input voltage can change from 8,9V ($3,2 + 3,2 + 2,5$) till 35,9V ($8,9 + 27,0$).

Example 2:

You are going to connect one white LED (3,5V). The input voltage can change from 6,0V ($3,5 + 2,5$) till 33,0V ($6,0 + 27,0$).

Mini Constant Current Power Supply (30mA, up to 37V)



Part Number: LT-1214

mA typ.: 30 mA

V typ.: 37 V

2008 Edition with many innovations!

This new and unbelievable small constant current power supply for your LEDs works with the above mentioned output current. The forward voltage is secondary. This guarantees a homogeneous brightness through the whole forward voltage range and a maximum lifetime to the connected LEDs.

The usage and operating range:

The usage is really very simple. You only have to check that the minimum input voltage is 2,5V higher than the common LED forward voltages and the maximum input voltage should not be more than 18V above the minimum input voltage. Please also have a look at the below mentioned examples.

What is new?

- Smaller housing for bigger range of applications
- Thermal protections: Self adjusting when too hot

Further Data:

- Dimensions: 16.0 x 5,5 x 2,5mm
- Min. voltage: 1,5V DC
- Max. voltage: 37V DC
- Max. power consumption: 500mW
- Operating temperature: -25°C up to +125°C
- Output: wrong polarity & short circuit protected
- Contacts: Soldering pads
- Drop voltage: 2,5V
- Delivery: Completely mounted & tested

How to connect:

- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:

You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as V_f in common datasheets). The input voltage can change from 8,9V ($3,2 + 3,2 + 2,5$) till 26,9V ($8,9 + 18,0$).

Example 2:

You are going to connect one white LED (3,5V). The input voltage can change from 6,0V ($3,5 + 2,5$) till 24,0V ($6,0 + 18,0$).



Ultrabright LED (white)



Part Number: LT-1403

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: white

X: 0,310

Y: 0,310

MCD min.: 31000 mcd

MCD max.: 44000 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,2 V

V max.: 3,5 V

The top version with new DS chip !

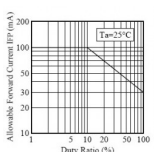
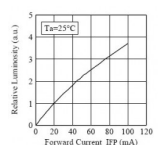
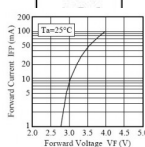
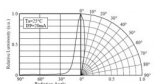
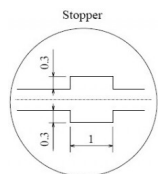
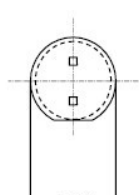
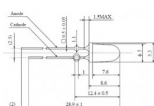
The NSPW-500DS is the follower of the BS version and comes with a multiple of brightness of the former model. This is possible because of an advanced chip, new materials and the well known production quality of Nichia products.

Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantee a steady top production standard up to the last detail that no second manufacturer provides that way.

Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!



Ultrabright LED (blue)



Part Number: LT-1404

Diameter: 5mm

Viewing Angle: 15°

Housing Color: clear

Emitting Color: blue

X: 0,130

Y: 0,130

MCD min.: 8240 mcd

MCD max.: 11500 mcd

mA test.: 20 mcd

mA typ.: 30 mA

V typ.: 3,2 V

V max.: 3,5 V

The top version with new AS chip !

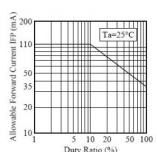
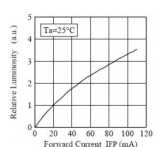
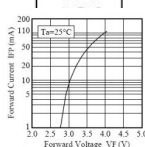
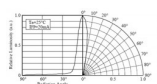
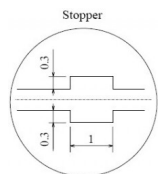
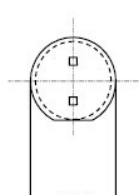
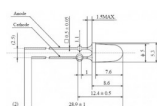
The NSPB-500AS is the follower of the S version and comes with a multiple of brightness of the former model. This is possible because of an advanced chip, new materials and the well known production quality of Nichia products.

Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantee a steady top production standard up to the last detail that no second manufacturer provides that way.

Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!



Imprint



LED-TECH.DE optoelectronics Showroom

Director: Stefan Lenz

Am Schürmannshütt 38B

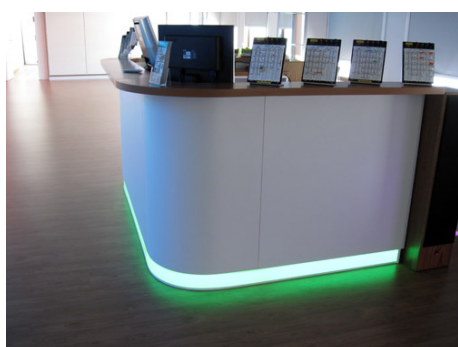
D-47441 Moers

Phone: (+49) 2841 / 97 91 7-0

Fax: (+49) 2841 / 97 91 7-29

Further we want to point at pictures, graphics and descriptions as well as the pagelayout itself which are all subject to copyright. Every offence will be prosecuted.

All mentioned prices are to be understood as gross prices including the value added tax (TAV). All offers are subject to prior sales and without commitment. Delivery times are to be understood from date of receipt of order. Mistakes and changes in prices are always reserved.



Notizen