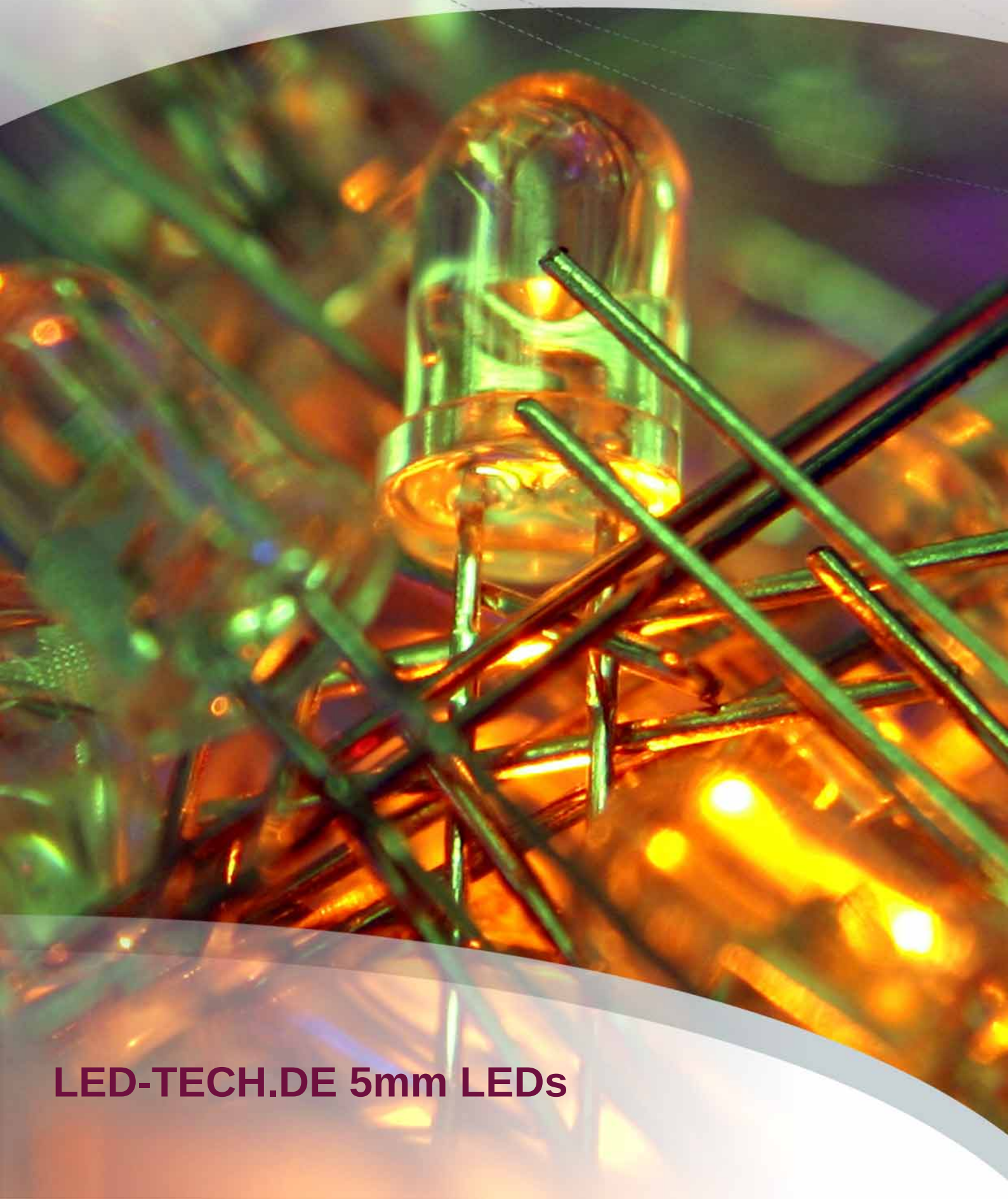
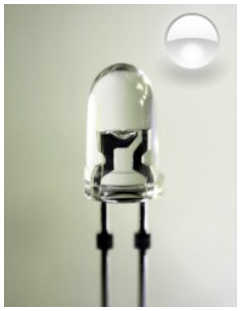
LED-TECH.DE
OPTOELECTRONICS



LED-TECH.DE 5mm LEDs

Standard LED (white)



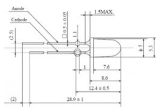
Part Number: LT-0006
Diameter: 5mm
Viewing Angle: 50°
Housing Color: clear
Emitting Color: white
X: 0,310
Y: 0,310
MCD min.: 7380 mcd
MCD typ.: 8890 mcd
MCD max.: 10400 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 2,65 V
V max.: 3,50 V

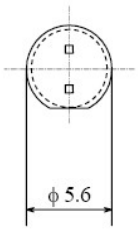
Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

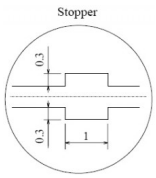
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantie a steady top production standart up to the last detail that no second manufacturer provides that way.

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.

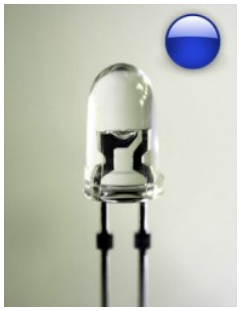
Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!







Superbright LED (blue)



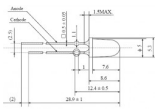
Part Number: LT-0011
Diameter: 5mm
Viewing Angle: 15°
Housing Color: clear
Emitting Color: blue
X: 0,130
Y: 0,130
MCD min.: 4120 mcd
MCD typ.: 4800 mcd
MCD max.: 5760 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,6 V
V max.: 4,0 V

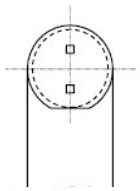
Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

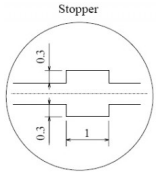
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantie a steady top production standart up to the last detail that no second manufacturer provides that way.

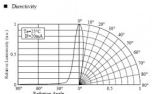
Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

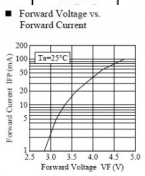
Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!

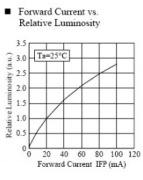


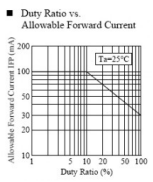


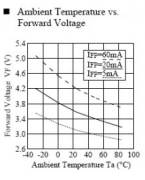




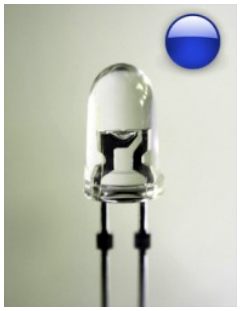








Standard LED (blue)



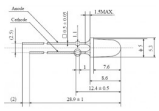
Part Number: LT-0013
Diameter: 5mm
Viewing Angle: 45°
Housing Color: clear
Emitting Color: blue
X: 0,130
Y: 0,130
MCD min.: 960 mcd
MCD typ.: 1160 mcd
MCD max.: 1380 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,6 V
V max.: 4,0 V

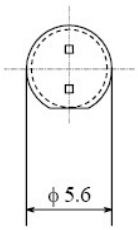
Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

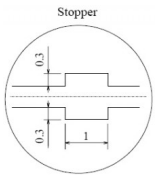
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantie a steady top production standart up to the last detail that no second manufacturer provides that way.

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.

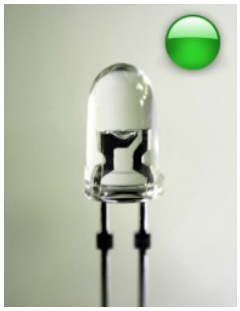
Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!







Ultrabright LED (green)



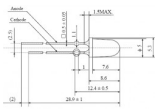
Part Number: LT-0017
Diameter: 5mm
Viewing Angle: 15°
Housing Color: clear
Emitting Color: green
X: 0,170
Y: 0,170
MCD min.: 13800 mcd
MCD typ.: 16000 mcd
MCD max.: 19500 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,5 V
V max.: 4,0 V

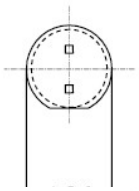
Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

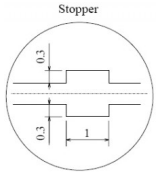
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantie a steady top production standart up to the last detail that no second manufacturer provides that way.

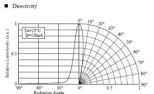
Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

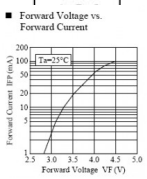
Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!

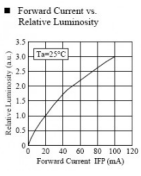


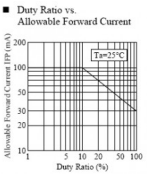


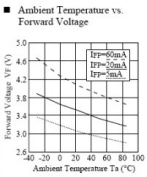








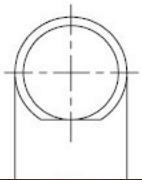


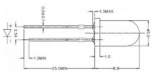


Ultrabright LED (blue)

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

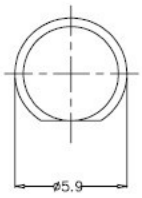


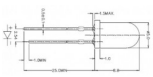


Ultrabright LED (yellow)

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



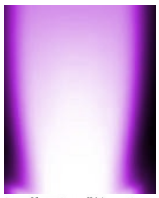


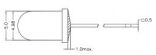
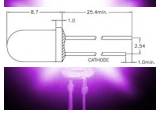
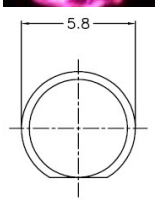
Special Effect LED (pink)

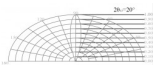
This new superbright pink 5mm LED uses a blue 470nm Chip which is coated with new red phosphor of 630nm.

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





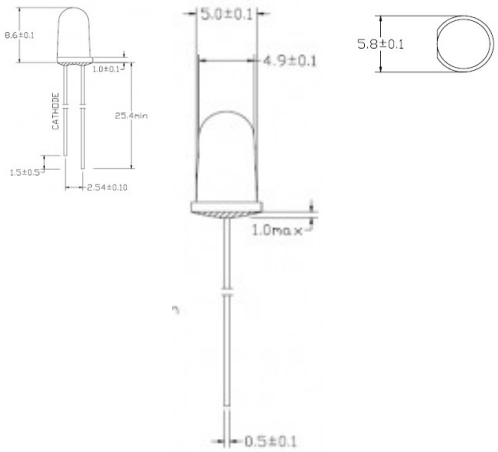
Ultrabright LED (white)

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

Bestseller 2007 - over 1 Million pcs. sold!

This 5mm ultrabright LED proofs 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).

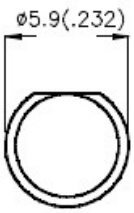
The LED works with a GaN chip of typ. 15.000 - 18.000mcd (measured and proofed). The selection is very good and even useable for LED stripe or cluster applications. Try it!

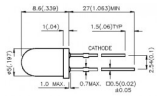


Classic LED (green)

- Excellent quality product
- Long lifetime
- Very good quality
- Unbeatable price-performance ratio

Part Number: LT-0054
Diameter: 5mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: green
Nanometer: 568
MCD max.: 30 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,2 V
V max.: 2,5 V

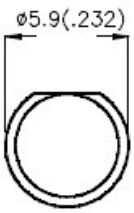


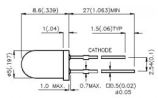


Classic LED (red)

- Excellent quality product
- Long lifetime
- Very good quality
- Unbeatable price-performance ratio

Part Number: LT-0055
Diameter: 5mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red
Nanometer: 660
MCD max.: 35 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,0 V
V max.: 2,5 V

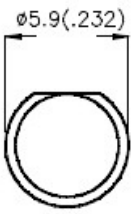


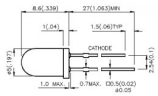


Classic LED (yellow)

- Excellent quality product
- Long lifetime
- Very good quality
- Unbeatable price-performance ratio

Part Number: LT-0056
Diameter: 5mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: yellow
Nanometer: 588
MCD max.: 30 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,1 V
V max.: 2,5 V

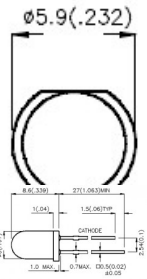


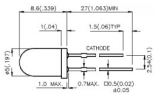


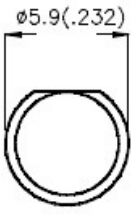
Ultrabright LED (red)

- 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



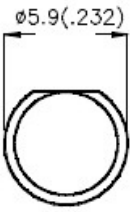


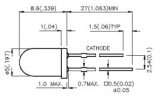


Standard LED (red)

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

Part Number: LT-0067
Diameter: 5mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: red
Nanometer: 640
MCD typ.: 4500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 1,8 V
V max.: 2,5 V

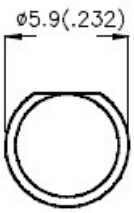


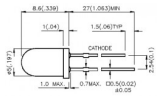


Standard LED (yellow)

- 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

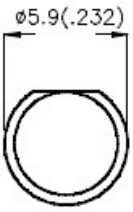


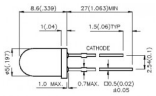


Ultrabright LED (white)

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

Part Number: LT-0072
Diameter: 5mm
Viewing Angle: 15°
Housing Color: clear
Emitting Color: white
MCD min.: 12000 mcd
MCD typ.: 15000 mcd
Kelvin typ.: 6500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,8 V
V max.: 3,4 V

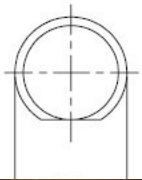


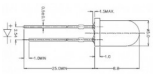


Ultrabright LED (green)

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



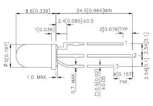


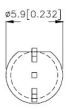
Duo LED (Superbright) (red / green)

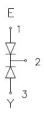
3pin 5mm Double LED with common cathode with two main colors and one mix color.

- 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





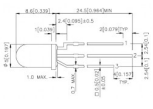


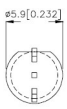
Duo LED (red / green)

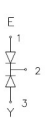
3pin 5mm Double LED with common cathode with two main colors and one mix color.

- 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





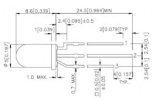


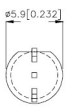
Duo LED (red / yellow)

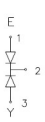
3pin 5mm Double LED with common cathode with two main colors and one mix color.

- 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





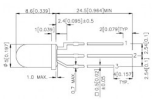


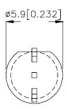
Duo LED (green / yellow)

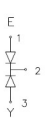
3pin 5mm Double LED with common cathode with two main colors and one mix color.

- 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







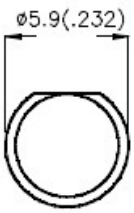
Blink LED (red)

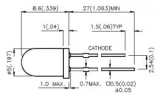
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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-0298
Diameter: 5mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red
Nanometer: 625
MCD typ.: 40 mcd
MCD max.: 50 mcd
mA typ.: 22 mA
V typ.: 3,5 V
V max.: 5,0 V





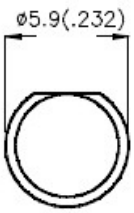
Blink LED (red)

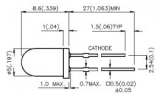
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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-0299
Diameter: 5mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red
Nanometer: 640
MCD typ.: 200 mcd
MCD max.: 220 mcd
mA typ.: 22 mA
V typ.: 3,5 V
V max.: 5,0 V





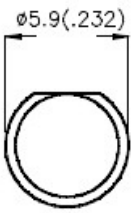
Blink LED (yellow)

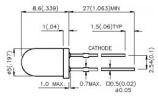
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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





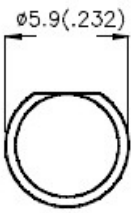
Blink LED (green)

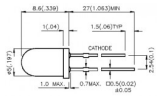
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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





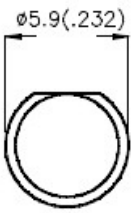
Blink LED (blue)

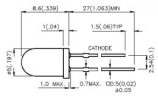
Light e[illegible]g diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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

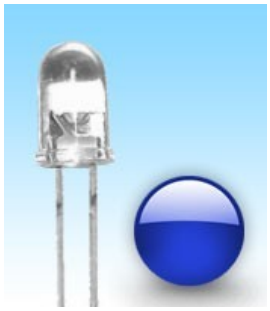
Frequency: 1.5-3Hz

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



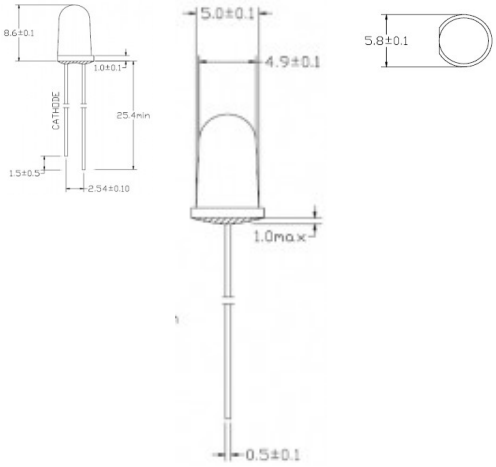


Superbright LED (blue)

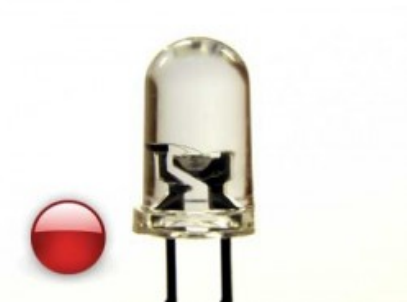


- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

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

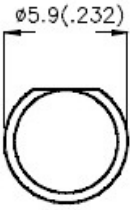


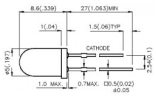
Ultrabright LED (red)



- 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

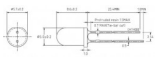




Superbright LED (golden white)

The name YolDal 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.

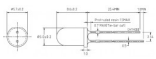
Part Number: LT-0327
Diameter: 5mm
Viewing Angle: 30°
Housing Color: clear
Emitting Color: golden white
MCD typ.: 2800 mcd
MCD max.: 3500 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V



Ultrabright LED (sunny white)

The name YoldaI 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.

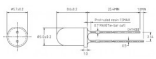
Part Number: LT-0328
Diameter: 5mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: sunny white
MCD typ.: 9200 mcd
MCD max.: 11000 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V



Superbright LED (sunny white)

The name YolDal 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.

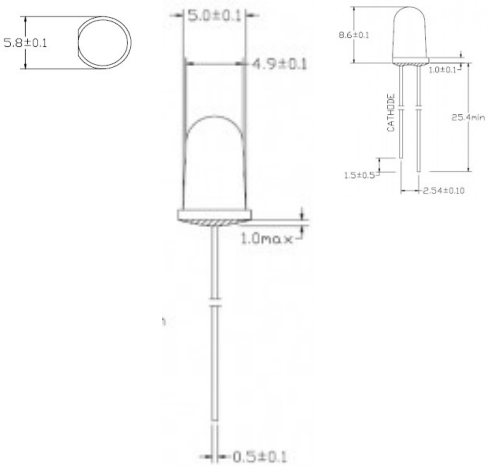
Part Number: LT-0329
Diameter: 5mm
Viewing Angle: 40°
Housing Color: clear
Emitting Color: sunny white
MCD typ.: 2800 mcd
MCD max.: 3600 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V



Ultrabright LED (warm white)

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

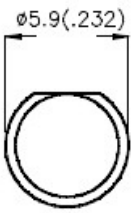
Part Number: LT-0333
Diameter: 5mm
Viewing Angle: 15°
Housing Color: clear
Emitting Color: warm white
MCD min.: 12000 mcd
MCD typ.: 15000 mcd
MCD max.: 18000 mcd
Kelvin typ.: 3000 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,8 V
V max.: 3,4 V

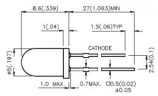


Standard LED (orange)

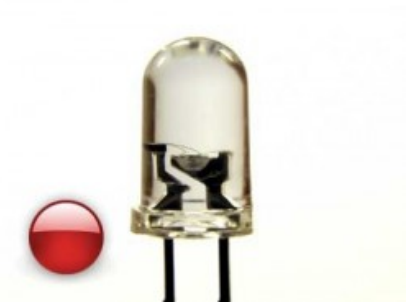
The new low cost LED with a very attractive price-performance ratio. Bottom price now!

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



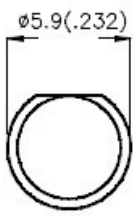


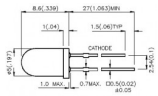
Superbright LED (red)



- 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

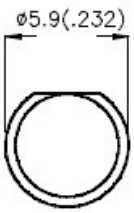


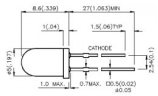


Superbright LED (red)

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

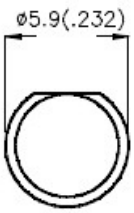


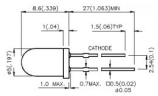


IR LED (infrared)

The new infrared LED with 50mA (max). The capacistance 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

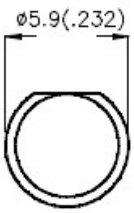


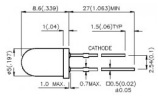


UV LED (UV)

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

Part Number: LT-0670
Diameter: 5mm
Viewing Angle: 30°
Housing Color: clear
Emitting Color: UV
Nanometer: 400
MCD typ.: 700 mcd
mA test.: 25 mcd
mA typ.: 30 mA
V typ.: 3.5 V
V max.: 4.0 V
V sperr.: 5.0 V



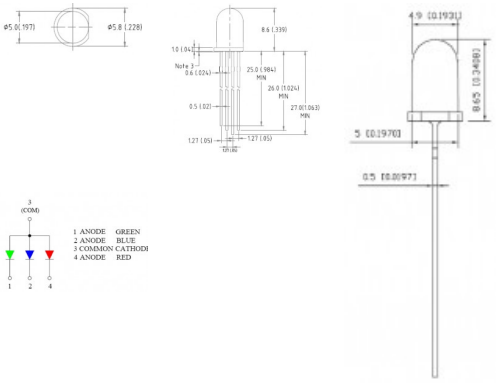


Superbright RGB LED (CC) (red / green / blue)

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



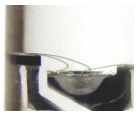
Flashing LED (blue)

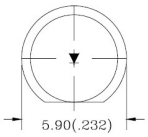
Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecather applications. Further advantage are long lifetime and industry standard quality!

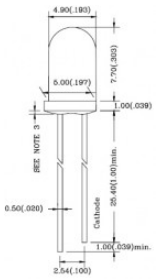
This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

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







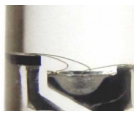
Flashing LED (green)

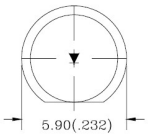
Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecather applications. Further advantage are long lifetime and industry standard quality!

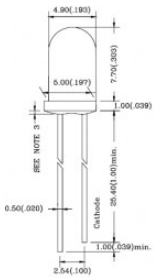
This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

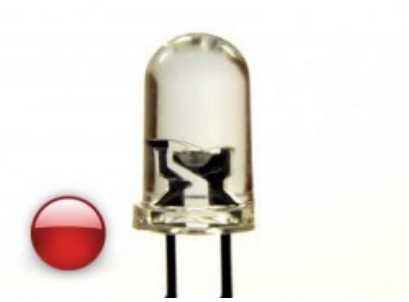
Part Number: LT-1023
Diameter: 5mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: green
Nanometer: 570
MCD max.: 15000 mcd
mA typ.: 20 mA
V typ.: 3,3 V
V max.: 4,0 V







Flashing LED (red)

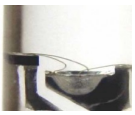


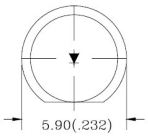
Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecather applications. Further advantage are long lifetime and industry standard quality!

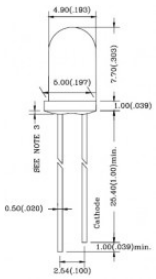
This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-1024
Diameter: 5mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: red
Nanometer: 635
MCD max.: 15000 mcd
mA typ.: 20 mA
V typ.: 2,0 V
V max.: 2,5 V







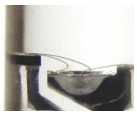
Flashing LED (yellow)

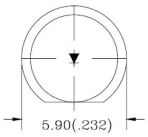
Extrem bright and widely visible flashing LED. Ideal for commercial use and other eyecather applications. Further advantage are long lifetime and industry standard quality!

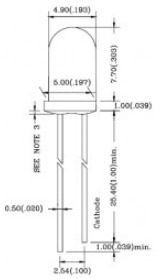
This flashing LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

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





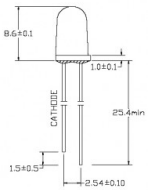


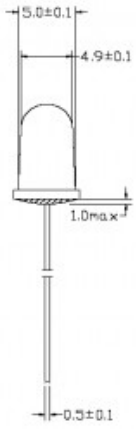
Wide Beam LED (white)

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

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 neccessary 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.



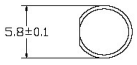


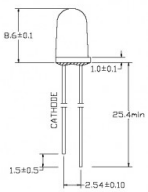
Wide Beam LED (blue)

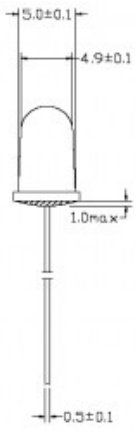
Part Number: LT-1035
Diameter: 5mm
Viewing Angle: 70°
Housing Color: diffused
Emitting Color: blue
Nanometer: 470
MCD typ.: 1000 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,8 V
V max.: 3,4 V

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 neccessary 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.





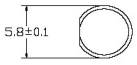


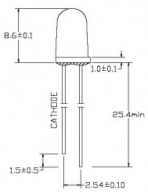
Wide Beam LED (green)

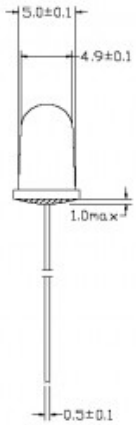
Part Number: LT-1036
Diameter: 5mm
Viewing Angle: 70°
Housing Color: diffused
Emitting Color: green
Nanometer: 525
MCD typ.: 1500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,8 V
V max.: 3,4 V

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 neccessary 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.





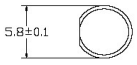


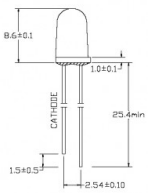
Wide Beam LED (red)

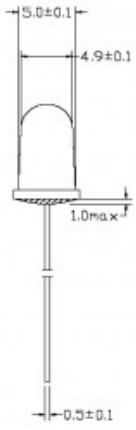
Part Number: LT-1037
Diameter: 5mm
Viewing Angle: 70°
Housing Color: diffused
Emitting Color: red
Nanometer: 620
MCD typ.: 1000 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 1,8 V
V max.: 2,4 V

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 neccessary 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.





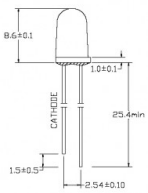


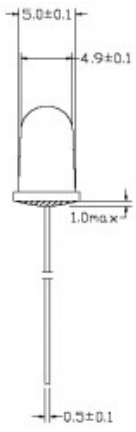
Wide Beam LED (yellow)

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

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 neccessary 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.



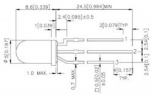


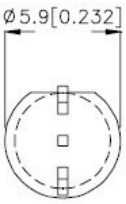
Duo LED (Superbright) with common Anode (red / yellow)

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



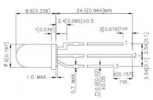


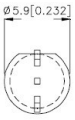
Duo LED with common Anode (red / yellow)

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



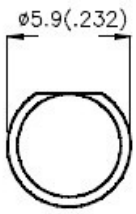


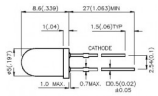
IR LED (infrared)

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

Output: 30mW/sr

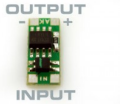
Part Number: LT-1099
Diameter: 5mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: infrared
Nanometer: 940
MCD typ.: 40 mcd
mA typ.: 50 mA
V typ.: 1,2 V
V max.: 1,6 V





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 secundary. This garanties 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: Completly mounted & tested

How to connect:

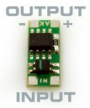
- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf 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 goint 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 secundary. This garanties 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: Completly mounted & tested

How to connect:

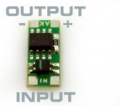
- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf 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 goint 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 secundary. This garanties 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: Completly mounted & tested

How to connect:

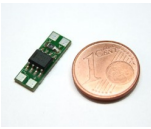
- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

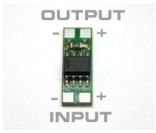
Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf in common datasheets). The input voltage can change from 10,2V (3,2 + 3,2 + 3,8) till 28,2V (10,2 + 18,0).

Example 2:
You are goint 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 secundary. This garanties 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: Completly mounted & tested

How to connect:

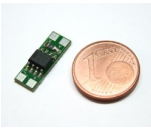
- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

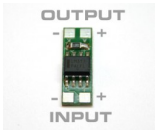
Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf in common datasheets). The input voltage can change from 8,9V (3,2 + 3,2 + 2,5) till 37V (8,9 + 37,0-> 37V = Max. of power supply).

Example 2:
You are goint 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 = 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 secundary. This garanties 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: Completly mounted & tested

How to connect:

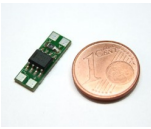
- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

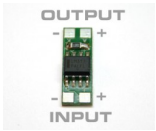
Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf in common datasheets). The input voltage can change from 8,9V (3,2 + 3,2 + 2,5) till 35,9V (8,9 + 27,0).

Example 2:
You are goint 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 secundary. This garanties 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: Completly mounted & tested

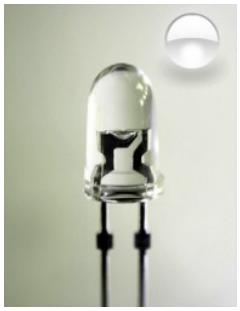
How to connect:

- 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 Vf 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 goint 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 !

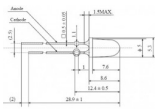
The NSPW-500DS is the follower of the BS version and comes with a multiple of brightness of the former modell. This is possible because of an advanced chip, new materials and the well known production quality of Nichia products.

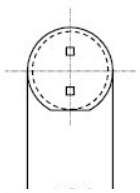
Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

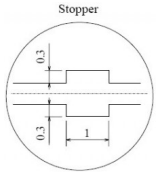
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantie a steady top production standart up to the last detail that no second manufacturer provides that way.

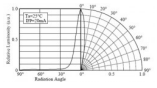
Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

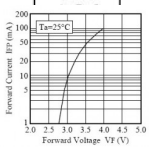
Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!

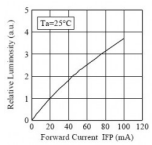


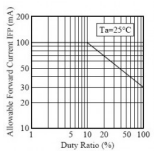




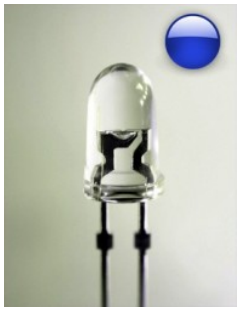








Ultrabright LED (blue)



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 !

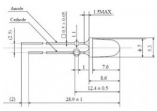
The NSPB-500AS is the follower of the S version and comes with a multiple of brightness of the former modell. This is possible because of an advanced chip, new materials and the well known production quality of Nichia products.

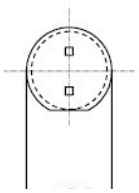
Nichia LEDs are the most popular, high quality and reliable light emitting diodes to buy on the market since many years. Skilled eyes quickly recognise the solid leadframe, clear edges and unique dome.

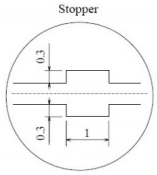
These high performance LEDs for highest demands are convincing by features like long lifetime, true colors and processing quality. Perfected manufacturing sequences guarantie a steady top production standart up to the last detail that no second manufacturer provides that way.

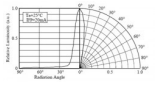
Applications with Nichia LEDs maybe more cost intensive than applications with low budget LEDs of course but a lot more reliable and brilliant, too. If it is not a low cost project and your name stands for the quality you are making the best choice with these LEDs.

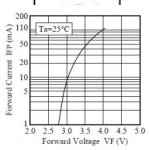
Regularly released lifetime tables and manifold selection possibilities proof that Nichia is no manufacturer who rounds up datasheet values or delivers bad selected products. With Nichia you pay it safe!

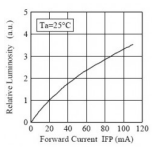


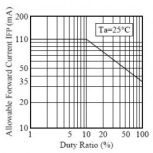












Imprint

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

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