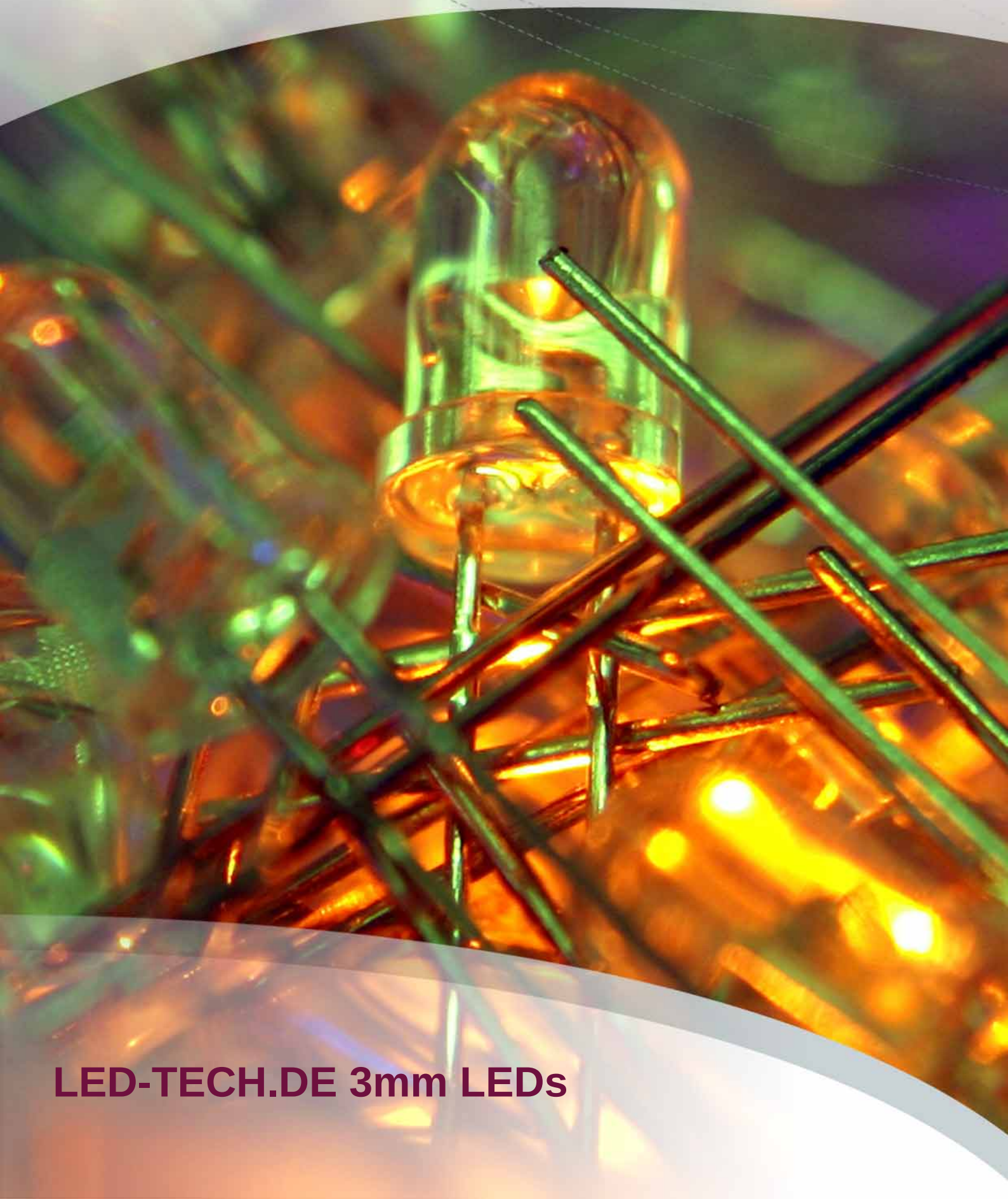
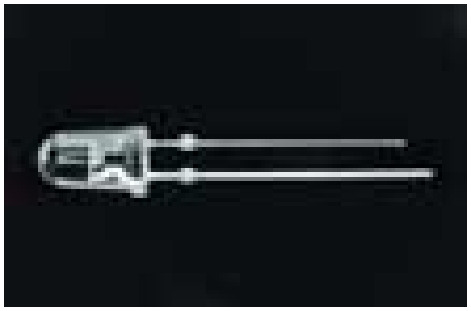
LED-TECH.DE
OPTOELECTRONICS



LED-TECH.DE 3mm LEDs

Standard LED (white)



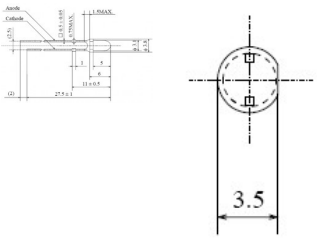
Part Number: LT-0002
Diameter: 3mm
Viewing Angle: 60°
Housing Color: clear
Emitting Color: white
X: 0,310
Y: 0,310
MCD min.: 4610 mcd
MCD typ.: 6200 mcd
MCD max.: 6510 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V
V max.: 3,5 V

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 (white)

Part Number: LT-0004
Diameter: 3mm
Viewing Angle: 70°
Housing Color: diffused
Emitting Color: white
X: 0,310
Y: 0,310
MCD min.: 1260 mcd
MCD typ.: 1560 mcd
MCD max.: 1840 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,6 V
V max.: 4,0 V

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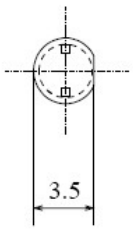

Superbright LED (blue)

Part Number: LT-0008
Diameter: 3mm
Viewing Angle: 15°
Housing Color: clear
Emitting Color: blue
X: 0,130
Y: 0,130
MCD min.: 2760 mcd
MCD typ.: 3200 mcd
MCD max.: 3880 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,6 V
V max.: 4,0 V

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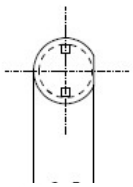
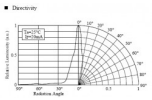
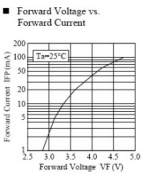
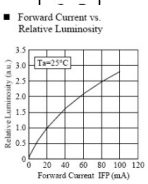
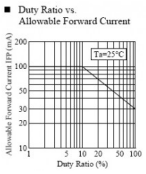
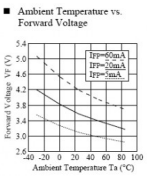


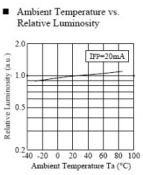


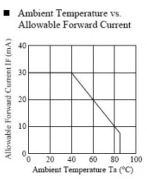




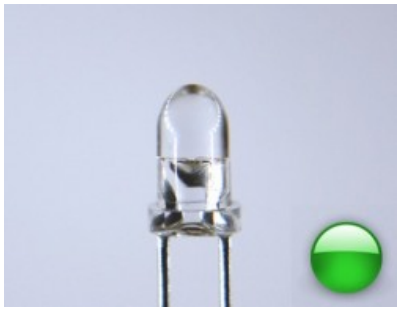






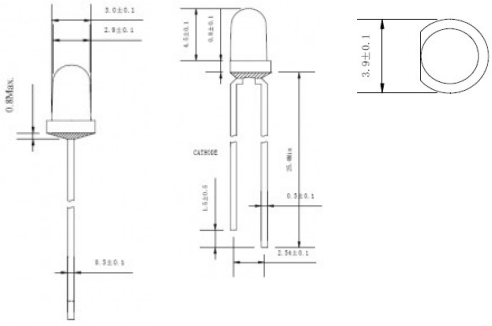


Superbright LED (green)



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

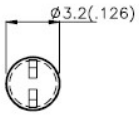
Part Number: LT-0059
Diameter: 3mm
Viewing Angle: 30°
Housing Color: clear
Emitting Color: green
Nanometer: 525
MCD typ.: 8000 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,8 V
V max.: 3,4 V

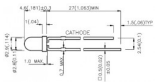


Standard LED (red)

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

Part Number: LT-0060
Diameter: 3mm
Viewing Angle: 34°
Housing Color: clear
Emitting Color: red
Nanometer: 640
MCD typ.: 2500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 1,8 V
V max.: 2,5 V

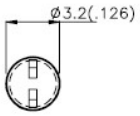


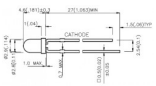


Standard LED (yellow)

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

Part Number: LT-0061
Diameter: 3mm
Viewing Angle: 30°
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.: 2.2 V

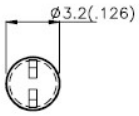


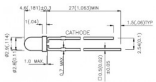


Standard LED (yellow)

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

Part Number: LT-0062
Diameter: 3mm
Viewing Angle: 34°
Housing Color: clear
Emitting Color: yellow
Nanometer: 589
MCD typ.: 1500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,3 V
V max.: 2,8 V

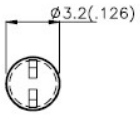


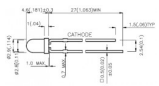


Classic LED (green)

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

Part Number: LT-0073
Diameter: 3mm
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

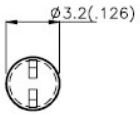


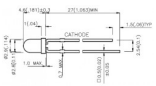


Classic LED (red)

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

Part Number: LT-0074
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red
Nanometer: 625
MCD max.: 30 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,0 V
V max.: 2,5 V

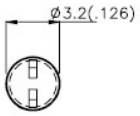


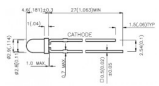


Classic LED (yellow)

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

Part Number: LT-0075
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: yellow
Nanometer: 588
MCD max.: 25 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,1 V
V max.: 2,5 V





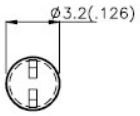
Blink LED (red)

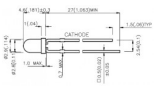
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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-0293
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red
Nanometer: 625
MCD typ.: 20 mcd
MCD max.: 30 mcd
mA typ.: 22 mA
V typ.: 3,5 V
V max.: 5,0 V





Blink LED (red)

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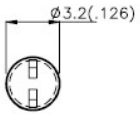
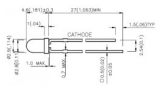
This blinking LED has best benchmark data to be supplied to every kind of use. The microcircuit has been integrated into the epoxy already.

Frequency: 1-2Hz

Part Number: LT-0294
Diameter: 3mm
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





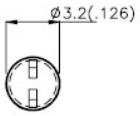
Blink LED (yellow)

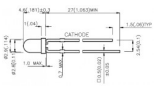
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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-0295
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: yellow
Nanometer: 588
MCD typ.: 10 mcd
MCD max.: 20 mcd
mA typ.: 22 mA
V typ.: 3,5 V
V max.: 5,0 V





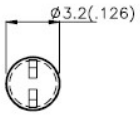
Blink LED (green)

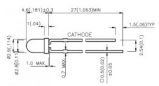
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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-0296
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: green
Nanometer: 568
MCD typ.: 15 mcd
MCD max.: 25 mcd
mA typ.: 22 mA
V typ.: 3,5 V
V max.: 5,0 V





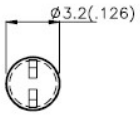
Blink LED (blue)

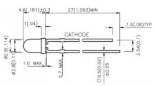
Light emitting diodes with integrated microcircuits are currently most wanted. Ideal for modelling or industry use.

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: 1-2Hz

Part Number: LT-0297
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: blue
Nanometer: 466
MCD typ.: 45 mcd
MCD max.: 50 mcd
mA typ.: 15 mA
V typ.: 3,5 V
V max.: 5,0 V

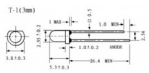




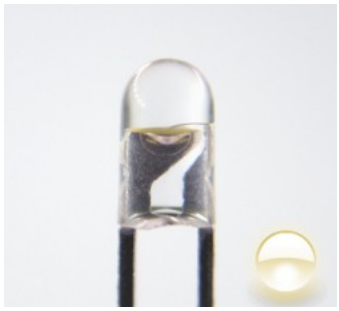
Superbright LED (golden white)

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-0325
Diameter: 3mm
Viewing Angle: 60°
Housing Color: transparent
Emitting Color: golden white
MCD typ.: 1500 mcd
MCD max.: 1800 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V

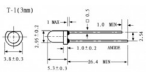


Superbright LED (sunny white)



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.

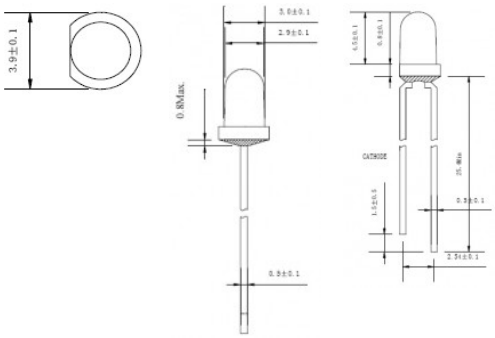
Part Number: LT-0326
Diameter: 3mm
Viewing Angle: 60°
Housing Color: clear
Emitting Color: sunny white
MCD typ.: 1500 mcd
MCD max.: 1800 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V



Superbright LED (white)

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

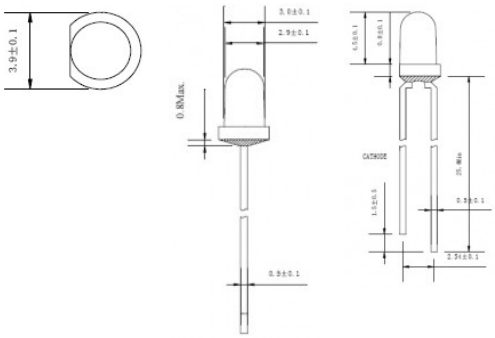
Part Number: LT-0330
Diameter: 3mm
Viewing Angle: 26°
Housing Color: clear
Emitting Color: white
MCD typ.: 6000 mcd
MCD max.: 8000 mcd
Kelvin typ.: 6500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 3,2 V
V max.: 3,6 V



Superbright LED (yellow)

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

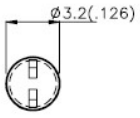
Part Number: LT-0332
Diameter: 3mm
Viewing Angle: 28°
Housing Color: clear
Emitting Color: yellow
Nanometer: 590
MCD typ.: 3000 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 1,8 V
V max.: 2,2 V

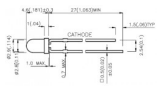


IR LED (infrared)

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

Part Number: LT-0427
Diameter: 3mm
Viewing Angle: 30°
Housing Color: clear
Emitting Color: infrared
Nanometer: 880
MCD min.: 7 mcd
MCD typ.: 20 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 1,3 V
V max.: 1,6 V

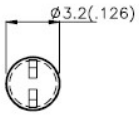


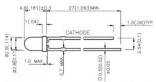


Superbright LED (red)

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

Part Number: LT-0465
Diameter: 3mm
Viewing Angle: 35°
Housing Color: clear
Emitting Color: red
Nanometer: 635
MCD typ.: 3500 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,0 V
V max.: 2,5 V





Superbright LED (orange)

The new generation superbright LED. Its new chip with doubled brightness and a real Orange (and not light red!) provides a full range of possibilities and applications.

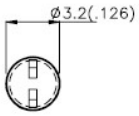
- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

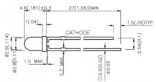
Part Number: LT-0550
Diameter: 3mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: orange
Nanometer: 610
MCD typ.: 3500 mcd
MCD max.: 5000 mcd
mA test.: 35 mcd
mA typ.: 20 mA
V typ.: 2,0 V
V max.: 2,4 V
V sperr.: 5.0 V

Standard LED (red)

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

Part Number: LT-0551
Diameter: 3mm
Viewing Angle: 35°
Housing Color: clear
Emitting Color: red
Nanometer: 621
MCD typ.: 2200 mcd
mA test.: 20 mcd
mA typ.: 20 mA
V typ.: 2,0 V
V max.: 2,5 V



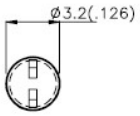


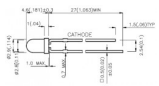
Low Current LED (green)

For extra energy saving applications. Low current LEDs need only 1-2mA to emitt light. This is a new and exciting possibility for every designer to keep the energy management as low as possible.

Even very usefull for applications that run on batteries or accumulators for long life- and light times of the whole application. Of corse low current LEDs are not as bright as ultrabright diodes but they serve their purpose very well at very good quality and price.

Part Number: LT-0666
Diameter: 3mm
Viewing Angle: 40°
Housing Color: diffused
Emitting Color: green
Nanometer: 568
MCD typ.: 30 mcd
mA test.: 20 mcd
mA typ.: 2 mA
V typ.: 2.2 V
V max.: 2.5 V
V sperr.: 5.0 V



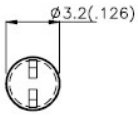


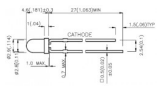
Low Current LED (yellow)

For extra energy saving applications. Low current LEDs need only 1-2mA to emitt light. This is a new and exciting possibility for every designer to keep the energy management as low as possible.

Even very usefull for applications that run on batteries or accumulators for long life- and light times of the whole application. Of corse low current LEDs are not as bright as ultrabright diodes but they serve their purpose very well at very good quality and price.

Part Number: LT-0667
Diameter: 3mm
Viewing Angle: 40°
Housing Color: diffused
Emitting Color: yellow
Nanometer: 588
MCD typ.: 25 mcd
mA test.: 20 mcd
mA typ.: 2 mA
V typ.: 2.1 V
V max.: 2.5 V
V sperr.: 5.0 V



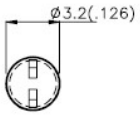


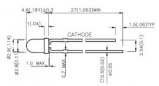
Low Current LED (red)

For extra energy saving applications. Low current LEDs need only 1-2mA to emitt light. This is a new and exciting possibility for every designer to keep the energy management as low as possible.

Even very usefull for applications that run on batteries or accumulators for long life- and light times of the whole application. Of corse low current LEDs are not as bright as ultrabright diodes but they serve their purpose very well at very good quality and price.

Part Number: LT-0668
Diameter: 3mm
Viewing Angle: 40°
Housing Color: diffused
Emitting Color: red
Nanometer: 625
MCD typ.: 30 mcd
mA test.: 20 mcd
mA typ.: 2 mA
V typ.: 2.0 V
V max.: 2.5 V
V sperr.: 5.0 V



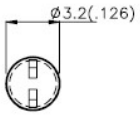


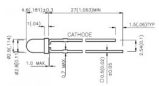
Low Current LED (red)

For extra energy saving applications. Low current LEDs need only 1-2mA to emitt light. This is a new and exciting possibility for every designer to keep the energy management as low as possible.

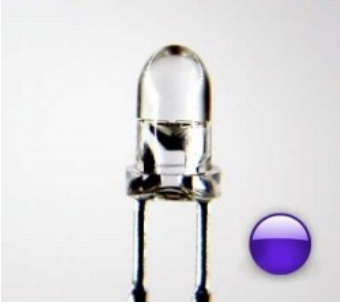
Even very usefull for applications that run on batteries or accumulators for long life- and light times of the whole application. Of corse low current LEDs are not as bright as ultrabright diodes but they serve their purpose very well at very good quality and price.

Part Number: LT-0669
Diameter: 3mm
Viewing Angle: 40°
Housing Color: diffused
Emitting Color: red
Nanometer: 640
MCD typ.: 60 mcd
mA test.: 20 mcd
mA typ.: 2 mA
V typ.: 1.85 V
V max.: 2.50 V
V sperr.: 5.00 V



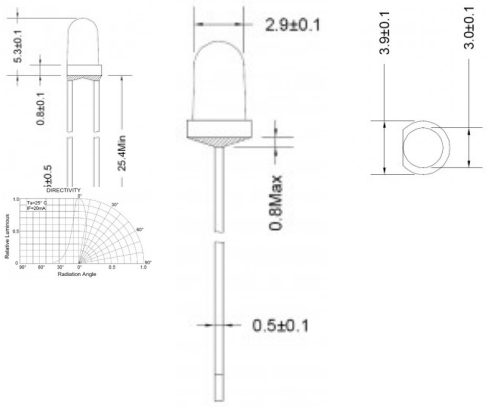


UV LED (UV)

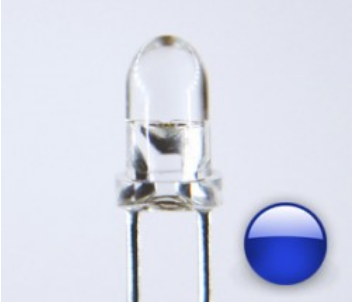


- Brightest selections
- Long lifetime
- Excellent quality
- Very good price-performance ratio

Part Number: LT-0842
Diameter: 3mm
Viewing Angle: 30°
Housing Color: clear
Emitting Color: UV
Nanometer: 395
Lumen typ.: 5 mcd
mA test.: 20 mcd
mA typ.: 25 mA
V typ.: 3.5 V
V max.: 3.8 V
V sperr.: 5.0 V



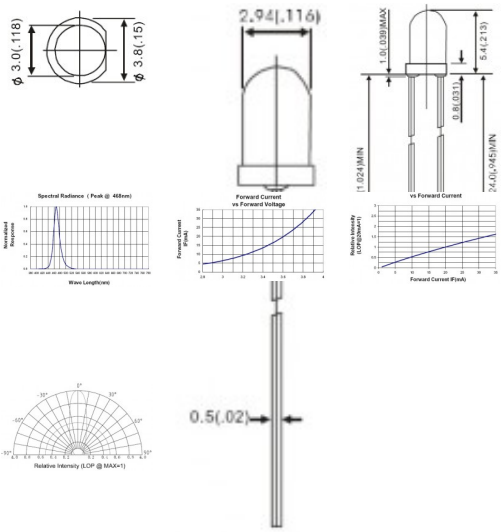
Superbright LED (blue)



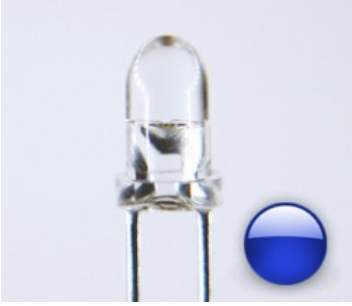
Selected high performance LED for every application range. Very good choice for all applications where the price is important, too!

This LED generation ais characterized by long lifetime, real colors and quality of course.

Part Number: LT-0849
Diameter: 3mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: blue
Nanometer: 470
MCD typ.: 5200 mcd
mA test.: 20 mcd
mA typ.: 35 mA
V typ.: 3,5 V
V max.: 4,0 V
V sperr.: 5,0 V



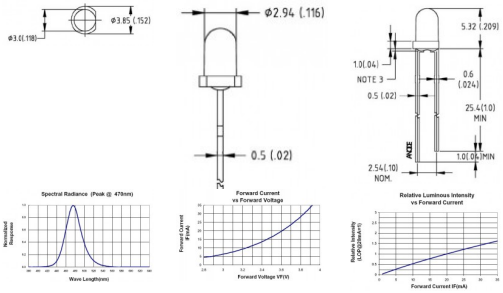
Superbright LED (blue)

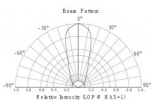


Selected high performance LED for every application range. Very good choice for all applications where the price is important, too!

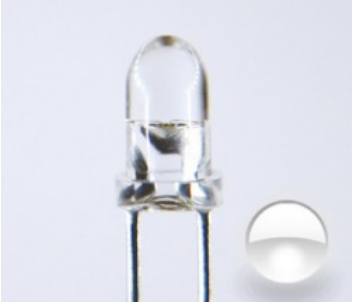
This LED generation ais characterized by long lifetime, real colors and quality of course.

Part Number: LT-0850
Diameter: 3mm
Viewing Angle: 35°
Housing Color: clear
Emitting Color: blue
Nanometer: 470
MCD typ.: 3500 mcd
MCD max.: 5000 mcd
mA test.: 20 mcd
mA typ.: 35 mA
V typ.: 3,6 V
V max.: 4,0 V
V sperr.: 5,0 V





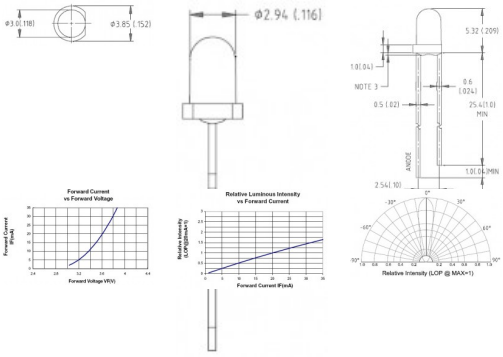
Superbright LED (white)



Selected high performance LED for every application range. Very good choice for all applications where the price is important, too!

This LED generation ais characterized by long lifetime, real colors and quality of course.

Part Number: LT-0851
Diameter: 3mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: white
X: 0.31
Y: 0.31
MCD typ.: 12000 mcd
mA test.: 20 mcd
mA typ.: 35 mA
V typ.: 3,6 V
V max.: 4,0 V
V sperr.: 5,0 V

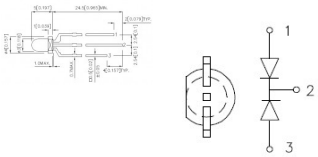


Duo LED (red / green)

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

- Nanometer: R=625 / G=568
- MCD typ.: R=40 / G=35
- V typ.: R=2,0 / G=2,5
- V max.: R=2,2 / G=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-0926
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red / green
mA test.: 20 mcd
mA typ.: 30 mA

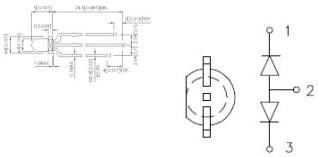


Duo LED with common Anode (red / green)

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

- Nanometer: R=625 / G=568
- V typ.: R=2,0 / G=2,5
- V max.: R=2,2 / G=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-0927
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red / green
mA test.: 20 mcd
mA typ.: 30 mA

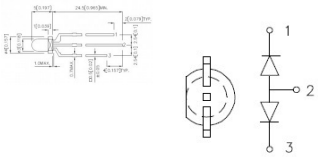


Duo LED with common Anode (red / yellow)

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

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

Part Number: LT-1061
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red / yellow
mA test.: 20 mcd
mA typ.: 30 mA

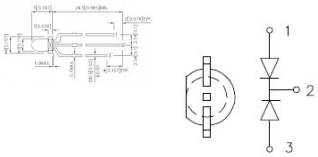


Duo LED (red / yellow)

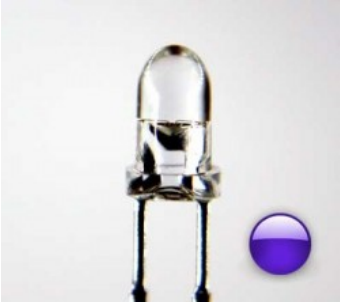
3pin 3mm Double LED with common cathode with two main colors and one mix color.

- Nanometer: R=625 / Y=588
- mcd typ.: R=40 / Y = 20
- V typ.: R=2,0 / Y=2,1
- V max.: R=2,2 / Y=2,5
- Long lifetime
- Easy use because of 3pin design

Part Number: LT-1093
Diameter: 3mm
Viewing Angle: 60°
Housing Color: diffused
Emitting Color: red / yellow
mA test.: 20 mcd
mA typ.: 30 mA



UV LED (with Cree Chip) (UV)

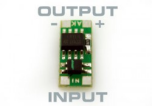


High efficiancy UV LED with high quality chip and long lifetime.

Part Number: LT-1106
Diameter: 3mm
Viewing Angle: 26°
Housing Color: clear
Emitting Color: UV
Nanometer: 400
mA test.: 20 mcd
mA typ.: 25 mA
V typ.: 3,5 V
V max.: 3,8 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:

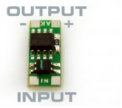
- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

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:

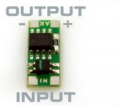
- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

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:

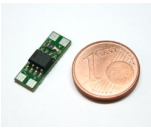
- Input: marked with IN (equal polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

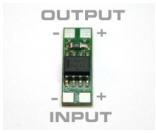
Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf in common datasheets). The input voltage can change from 10,2V (3,2 + 3,2 + 3,8) till 28,2V (10,2 + 18,0).

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:

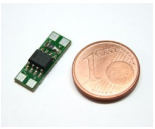
- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

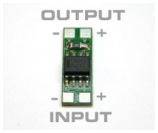
Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf in common datasheets). The input voltage can change from 8,9V (3,2 + 3,2 + 2,5) till 37V (8,9 + 37,0-> 37V = Max. of power supply).

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:

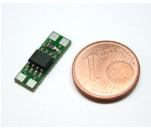
- Input: marked with + and - (watch polarity)
- Output: Marked with A/K. A=Anode (+), K=Cathode (-)

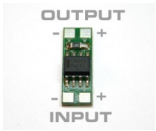
Example 1:
You are going to connect 2 LEDs with 3,2 forward voltage each (mostly mentioned as Vf in common datasheets). The input voltage can change from 8,9V (3,2 + 3,2 + 2,5) till 35,9V (8,9 + 27,0).

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-1401
Diameter: 3mm
Viewing Angle: 20°
Housing Color: clear
Emitting Color: white
X: 0,310
Y: 0,310
MCD min.: 15500 mcd
MCD max.: 22000 mcd
mA test.: 20 mcd
mA typ.: 30 mA
V typ.: 3,2 V
V max.: 3,5 V

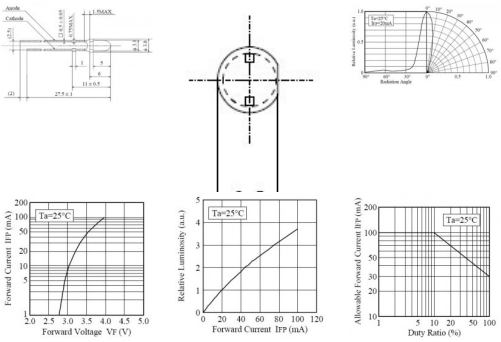
The top version with new DS chip !

The NSPW-300DS 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.

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

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