

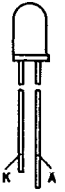
Kingbright® - Standard - LED's

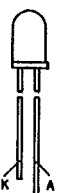


| Gehäuse Case | Typen- bezeichnung Type | Emissions- farbe Colour | Wellen- länge Wave Length λ_{peak} (nm) | Gehäuse- farbe Case-colour | Lichtstärke Luminous Intensity ($I_F = 10\text{ mA}$) I_v (mcd) min. typ. | Voll- winkel (Grad) Full viewing angle | Ab- messungen Dimensions Fig. No. |
|-----------------|-------------------------------|-------------------------------|---|----------------------------------|---|---|--|
| 1,8 mm | L - 1064 HD / A | [Red] | 660 | rot-diffus red-diffused | 0,5 - 0,8 | 30° | 1 |
| | L - 1064 HD / B | | | | 0,8 - 2 | | |
| | L - 1064 GD / A | [Green] | 565 | grün-diffus green-diffused | 0,8 - 1,25 | | |
| | L - 1064 GD / B | | | | 1,25 - 3,2 | | |
| | L - 1064 YD / A | [Yellow] | 595 | gelb-diffus yellow-diffused | 1,25 - 2 ² | | |
| | L - 1064 YD / B | | | | 2 - 5 | | |
| | L - 1064 ID / A | [Red] | 625 | rot-diffus red-diffused | 2 - 5 | | |
| | L - 1064 ID / B | | | | 5 - 8 | | |
| 3 mm | L - 934 HD / A | [Red] | 660 | rot-diffus red-diffused | 0,8 - 1,25 | 120° | 2 |
| | L - 934 HD / B | | | | 1,25 - 3,2 | | |
| | L - 934 GD / A | [Green] | 565 | grün-diffus green-diffused | 2 - 3,2 | | |
| | L - 934 GD / B | | | | 3,2 - 8 | | |
| | L - 934 YD / A | [Yellow] | 595 | gelb-diffus yellow-diffused | 2 - 3,2 | | |
| | L - 934 YD / B | | | | 3,2 - 8 | | |
| | L - 934 ID / A | [Red] | 625 | rot-diffus red-diffused | 2 - 3,2 | | |
| | L - 934 ID / B | | | | 3,2 - 8 | | |
| 5 mm | L - 53 HD / A | [Red] | 660 | rot-diffus red-diffused | 0,8 - 1,25 | 120° | 3 |
| | L - 53 HD / B | | | | 1,25 - 3,2 | | |
| | L - 53 GD / A | [Green] | 565 | grün-diffus green-diffused | 2 - 3,2 | | |
| | L - 53 GD / B | | | | 3,2 - 8 | | |
| | L - 53 YD / A | [Yellow] | 595 | gelb-diffus yellow-diffused | 3,2 - 8 | | |
| | L - 53 YD / B | | | | 8 - 20 | | |
| | L - 53 ID / A | [Red] | 625 | rot-diffus red-diffused | 3,2 - 8 | | |
| | L - 53 ID / B | | | | 8 - 20 | | |



Alle LED's sind in Helligkeits- und Farbgruppen selektiert.
All LED's are selected in brightness- and colourgroups.

| | | | | | | |
|--|-----------|-----|--|-----------|-----|---|
|  5mm | L-53 IT/A | 625 | rot-transparent red-transparent | 8 - 20 | 15° | 3 |
| | L-53 IT/B | | | 20 - 80 | | |
| | L-53 GT/A | 565 | grün-transparent green-transparent | 8 - 20 | | |
| | L-53 GT/B | | | 20 - 50 | | |
| | L-53 YT/A | 595 | gelb-transparent yellow-transparent | 12,5 - 20 | | |
| | L-53 YT/B | | | 20 - 80 | | |

| | | | | | | |
|--|-----------|-----|--------------------------|-----------|-----|---|
|  5mm | L-53 EC/A | 625 | weiß-klar water-clear | 8 - 20 | 15° | 3 |
| | L-53 EC/B | | | 20 - 80 | | |
| | L-53 GC/A | 565 | weiß-klar water-clear | 8 - 20 | | |
| | L-53 GC/B | | | 20 - 50 | | |
| | L-53 YC/A | 595 | weiß-klar water-clear | 12,5 - 20 | | |
| | L-53 YC/B | | | 20 - 80 | | |



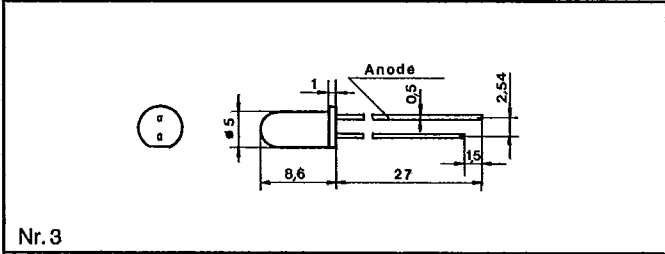
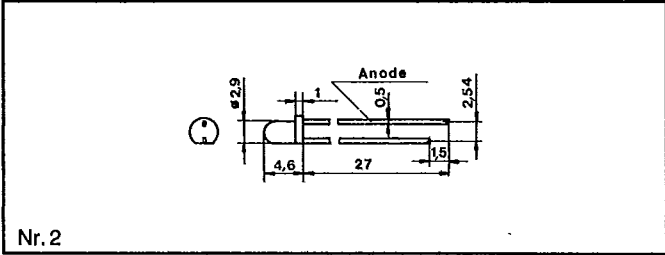
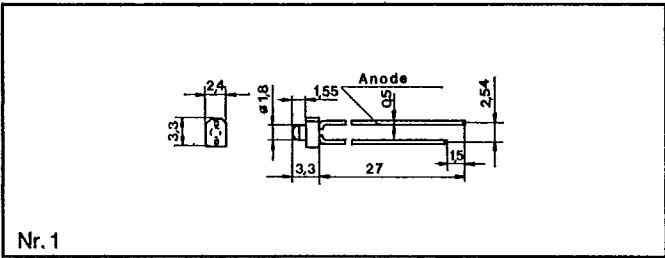
Kennen Sie Kingbright Spezial-LED's?

Duo-LED's und superhelle LED's in 3, 5, 8 und 10 mm \varnothing bis zu 1.500 mcd!

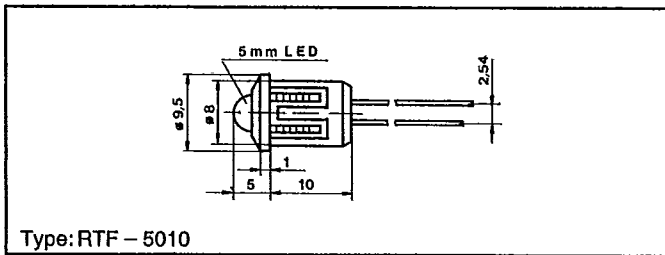
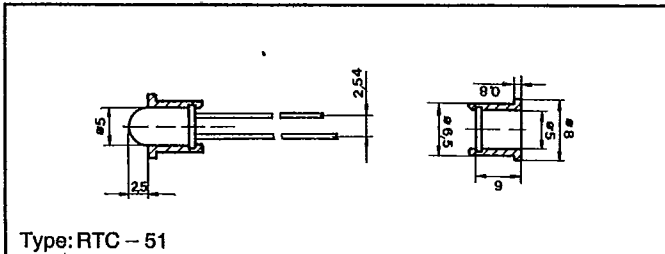
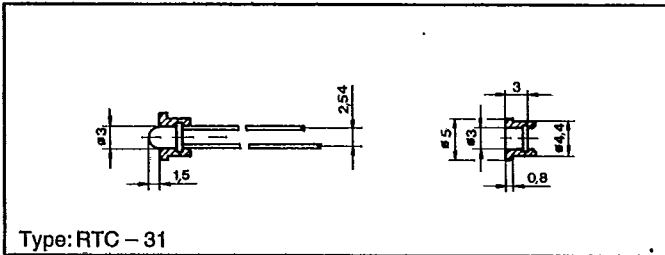
Bicolour-LED's and high brightness LED's in 3, 5, 8 and 10 mm \varnothing till 1.500 mcd!

| Charakteristische Daten / Characteristic datas | | | | | | |
|--|-----------------|---------------------|---------------------------------------|------------------------|-------------------------------|---------------|
| Grenzdaten (Maximal Werte) Absolute maximum ratings ($T_A = 25^\circ\text{C}$) | | rot red (GaP) | super-rot super-red GaAsP/GaP) | grün green (GaP) | gelb yellow (GaAsP/GaP) | |
| Sperrspannung Reserve voltage | V_R | 5 | 5 | 5 | 5 | V |
| Durchlaßstrom Forward current | I_F | 20 | 30 | 30 | 30 | mA |
| Stoßstrom ($\tau \leq 10 \mu\text{s}$) Forward current (peak) | I_{FS} | 150 | 150 | 150 | 150 | mA |
| Verlustleistung Power dissipation | P_T | 120 | 105 | 105 | 105 | mW |
| Betriebstemperatur Operating temperature | T_A | -50° +100° | -50° +100° | -50° +100° | -50° +100° | C |
| Lagertemperatur Storage temperature | T_{stg} | -50° +100° | -50° +100° | -50° +100° | -50° +100° | C |
| Kenndaten (Typische Werte) Operating characteristics ($T_A = 25^\circ\text{C}$) | | rot red (GaP) | super-rot super-red (GaAsP/GaP) | grün green (GaP) | gelb yellow (GaAsP/GaP) | |
| Durchlaßspannung (typ.) Forward voltage (typ.) ($I_F = 20 \text{ mA}$) | V_F | 2,0 | 2,0 | 2,2 | 2,1 | V |
| Durchlaßspannung (max.) Forward voltage (max.) ($I_F = 20 \text{ mA}$) | V_F | 2,8 | 2,8 | 2,8 | 2,8 | V |
| Sperrstrom Reserve current ($V_R = 5 \text{ V}$) | I_R | 100 | 100 | 100 | 100 | μA |
| Wellenlänge des emittierten Lichtes Wave length at peak emission ($I_F = 20 \text{ mA}$) | λ_P | 660 | 625 | 565 | 595 | nm |
| Spektrallinien-Halbweite Spectral line half-width ($I_F = 20 \text{ mA}$) | $\Delta\lambda$ | 45 | 45 | 30 | 35 | nm |

Abmessungen Dimensions



Clips + Fassungen Accessories



Selektion-Code für LED's Selection-Code for LED's



| Gruppe Group | Lichtstärke in mcd / 10 mA Light intensity at mcd / 10 mA | | | |
|-----------------|--|--|------|--|
| | min. | | max. | |
| F | 0,1 | | 0,2 | |
| G | 0,2 | | 0,32 | |
| H | 0,32 | | 0,5 | |
| I | 0,5 | | 0,8 | |
| K | 0,8 | | 1,25 | |
| L | 1,25 | | 2 | |
| M | 2 | | 3,2 | |
| N | 3,2 | | 5 | |
| P | 5 | | 8 | |
| Q | 8 | | 12,5 | |
| R | 12,5 | | 20 | |
| S | 20 | | 32 | |
| T | 32 | | 50 | |
| U | 50 | | 80 | |
| V | 80 | | 125 | |
| W | 125 | | 200 | |

| Gruppe Group | Farbgruppierung für LED's Colour Classification for LED's | | | |
|-----------------|--|------|--------------|------|
| | Gelb / Yellow | | Grün / Green | |
| | Dom. Wellenlänge (nm) Dom. Wavelength (nm) | | | |
| | min. | max. | min. | max. |
| 1 | 581 | 584 | 559 | 561 |
| 2 | 584 | 586 | 561 | 563 |
| 3 | 586 | 588 | 563 | 565 |
| 4 | 588 | 590 | 565 | 567 |
| 5 | 590 | 592 | 567 | 569 |
| 6 | 592 | 594 | 569 | 571 |
| 7 | | | 571 | 573 |
| 8 | | | 573 | 575 |

