

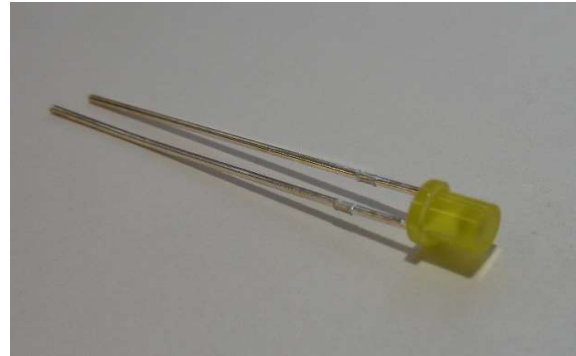
FQT35230BUB

591nm

Yellow LED

fietje-web.de

- * Standard design LED for general purpose
Based on double hetero structure of AlGAINP
- * Low current and low degradation application
- * Diffuse Yellow epoxy package
- * High-Brightness at low currents



Application: Illumination & Signalisation
Lensed Optical Systems
Medical Instruments

Optical and Electrical Characteristics @Tambient =25°C

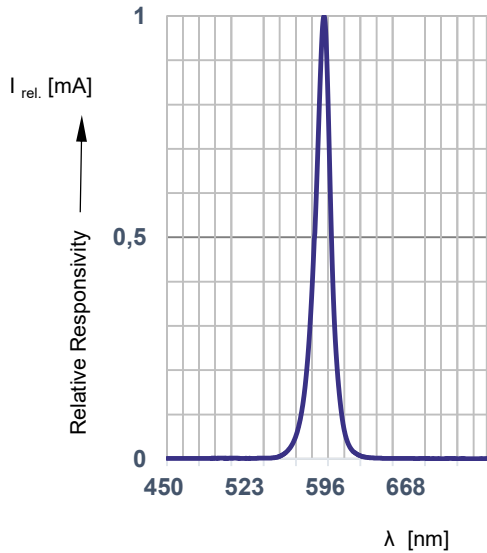
Symbol	Parameter	MIN	Typ	MAX	Unit	Test conditions
I F	DC Forward current			30	mA	
I Peak	Peak Forward current			80	mA	Tp < 10µsec. ; T=1:100 ; Rtherm < 100K/W
V F	Forward Voltage	1,8		2,4	V	IF = 20mA
V R	Reverse Voltage	4			V	Irev = 100µA
λ Peak	Peak Wavelength	587	592	596	nm	IF = 20mA
Δλ 0,5	Bandwidth of half power		15,5		nm	IF = 20mA
t f	Fall time		25		ns	
t r	Rise time		25		ns	
Φ E	Total Power Output		3,8		mW	IF = 20mA
I V	Luminous Intensity	350	400		mcd	IF = 20mA
2Φ 0,5	Full Emission Angle		120		deg.	ΦE = 50%
TK VF	Temp.Coeff. Of Forward Voltage		-0,01		mV/K	
TK F	Temp. Coeff. Of Radiant Power		-0,5		%/K	
T junction	LED-Junction Temperature			110	°C	
T Soldering	Soldering Temperature			260	°C	2mm from case @5 sec.
T Operating	Operating Temperature	-25		85	°C	
T Storage	Storage Temperature	-25		85	°C	
R thJA	Thermal Resistance		450		K/W	
P tot	Total Power Dissipation			72	mW	derate above 45°C 2,5mW/K

We reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact us for latest device specification sheets before using.

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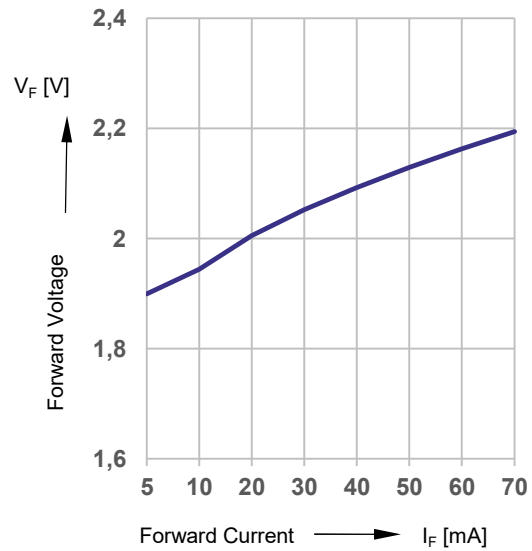
Relative Spectral Emission

@20mA @ $T_{\text{ambient}} = 25^{\circ}\text{C}$



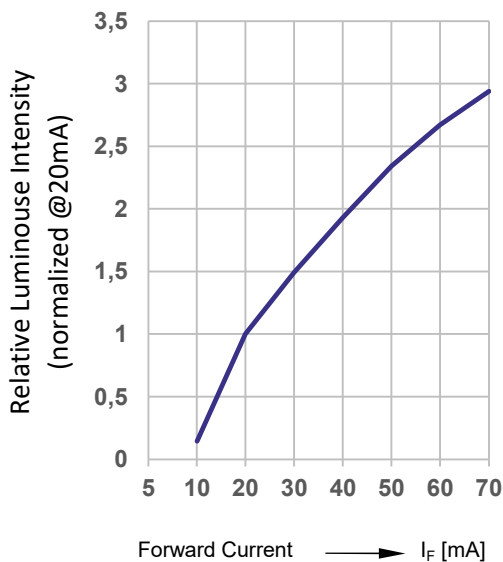
Fwd Current vs. Fwd Voltage

@ $T_{\text{ambient}} = 25^{\circ}\text{C}$



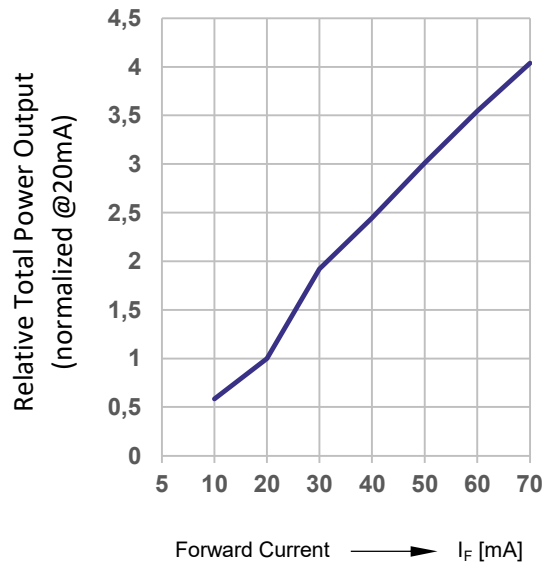
Relative Luminous Intensity vs. Fwd Current

@ $T_{\text{ambient}} = 25^{\circ}\text{C}$



Relative Total Power Output

@ $T_{\text{ambient}} = 25^{\circ}\text{C}$



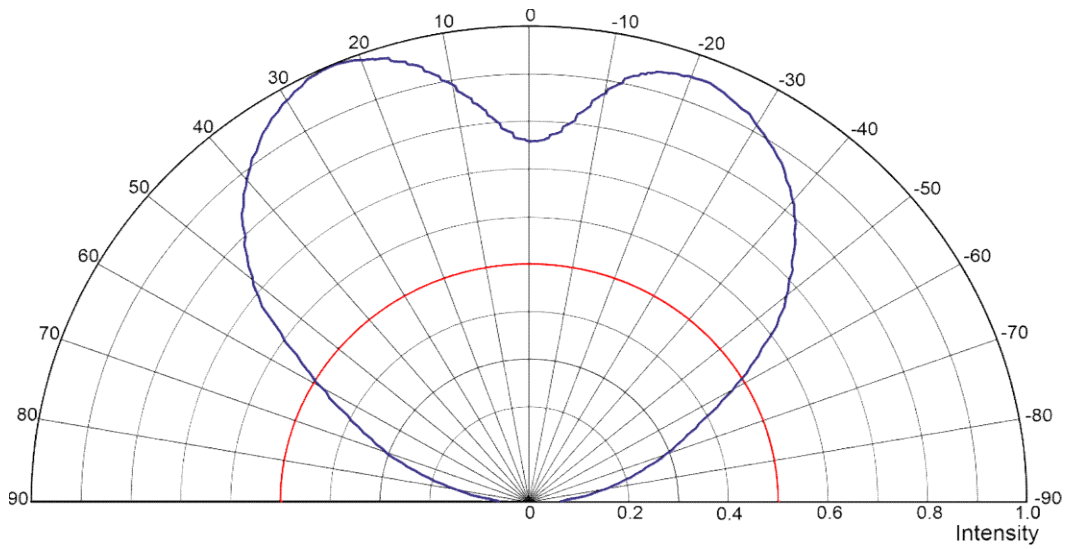
Pls. Contact us for more technical detail information !

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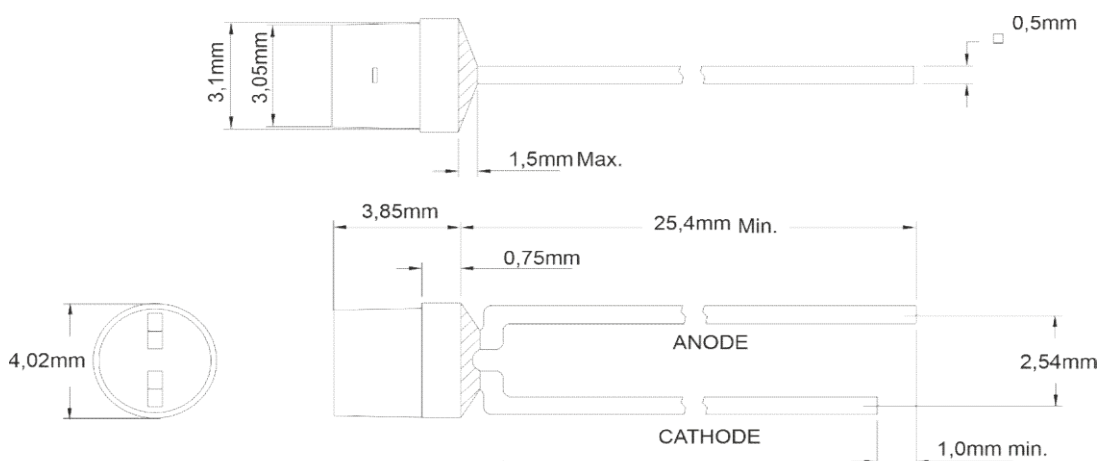
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Relative Radiation Angle

@20mA @ $T_{\text{ambient}} = 25^{\circ}\text{C}$



Mechanical Drawing



ALL TOLERANCE SHALL BE $\pm 8\text{mil} / 0,2\text{mm}$

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Order informations:

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Bulk (1000pcs./bag)