

Product Specification**CQR67595/96BBB 880nm****Infrared LED**

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Features

* Standard design LED for general purpose

* Typ. Radiation of 8 degree full angle

* Fast switching time: typical <25ns

* suitable for reflow soldering and

* Mountable in 5,0 mm raster

* RoHS and REACH conform

* SMT-Version tape & reeled for automatic placing CQS67595-96BBB

* Application:

Cat-2 Safety Light Guards

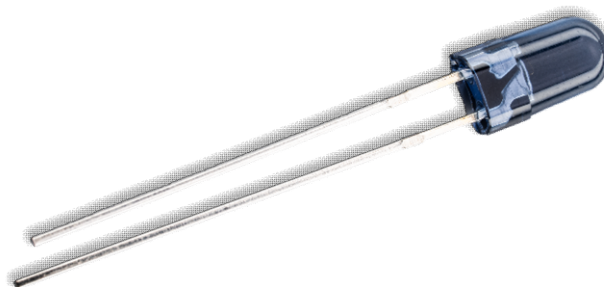
IR-Flash-lights

Medical instruments

Light interrupter and switches

* **Safety Note:**

This product can be driven with high level risks for human eyes and body acc. IEC 825 and EN62471

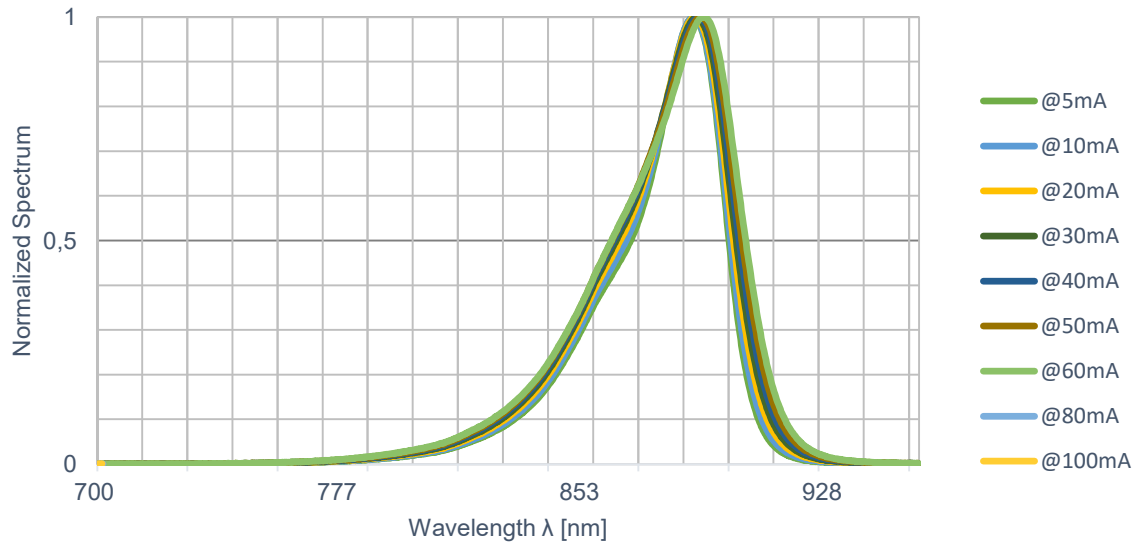
**Optical and Electrical Characteristics @Tambient =25°C**

Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
I F	DC Forward current			100	mA	
I Peak	Peak Forward current			1500	mA	Tp < 10µsec. ; T=1:100 ; Rtherm < 100K/W
V F	Forward Voltage		1,6	1,9	V	IF = 20mA
V R	Reverse Voltage	5			V	Irev = 100µA
λ Peak	Peak Wavelength	875	885	890	nm	IF = 20mA
Δλ 0,5	Bandwidth of half power		35		nm	IF = 20mA
t r	Rise time		20		ns	IF = 100mA
t f	Fall time		20		ns	IF = 100mA
Φ E	Total Power Output		60		mW	IF = 100mA
I E	Radiant Intensity	350	400		mW/sr	IF = 100mA
A	Chip size		0,13		mm²	
2Φ 0,5	Full Emission Angle	7	8		deg.	ΦE = 50%
TK VF	Temp.Coeff. Of Forward Voltage		-2		mV/K	
TK F	Temp. Coeff. Of Radiant Power		-0,4		%/K	
T junction	LED-Junction Temperature		110	115	°C	
T Soldering	Soldering Temperature			240	°C	5mm 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			190	mW	

CQR67595/96BBB

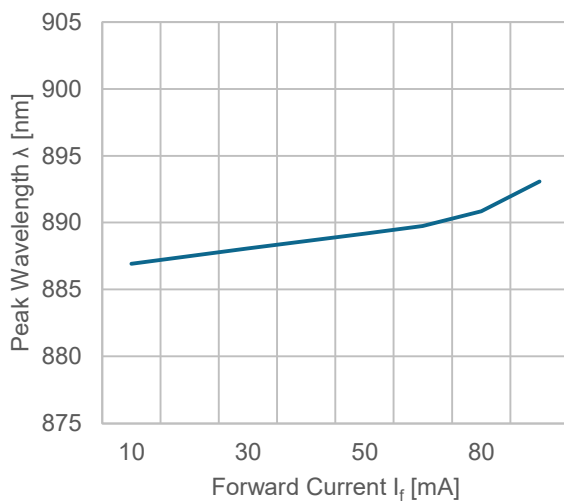
Relative Spectral Emission

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



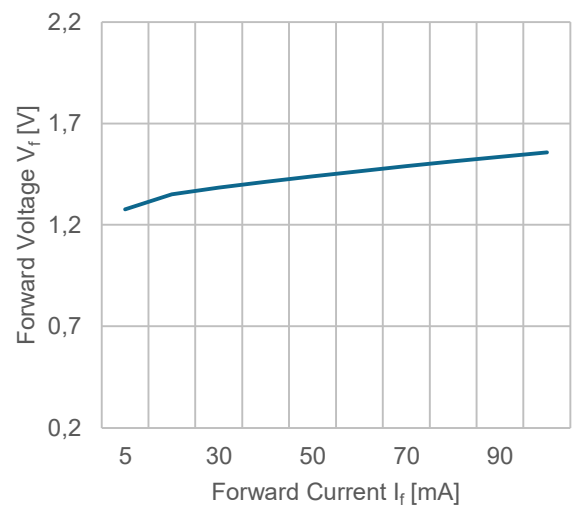
Fwd Current vs. Peak Wavelength

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



Fwd Voltage vs. Fwd Current

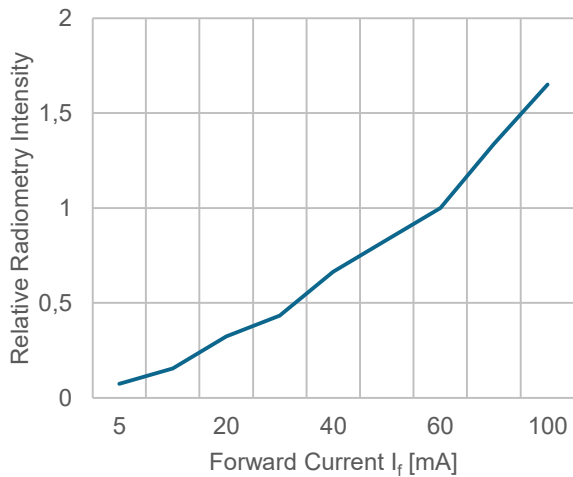
@ $T_{\text{ambient}} = 25^{\circ}\text{C}$



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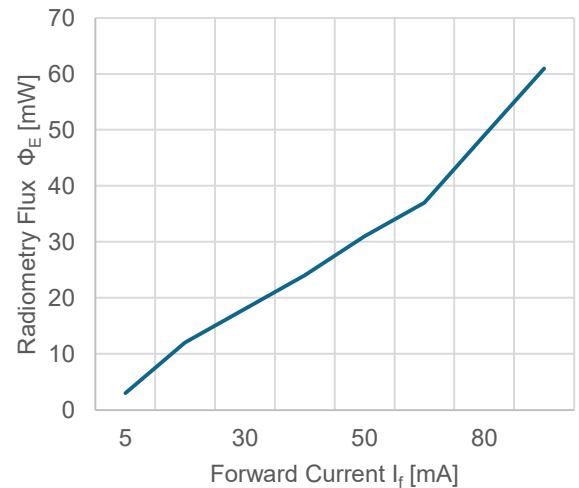
Fwd Current vs. Relative Radiant Intensity

@T_{ambient} = 25°C



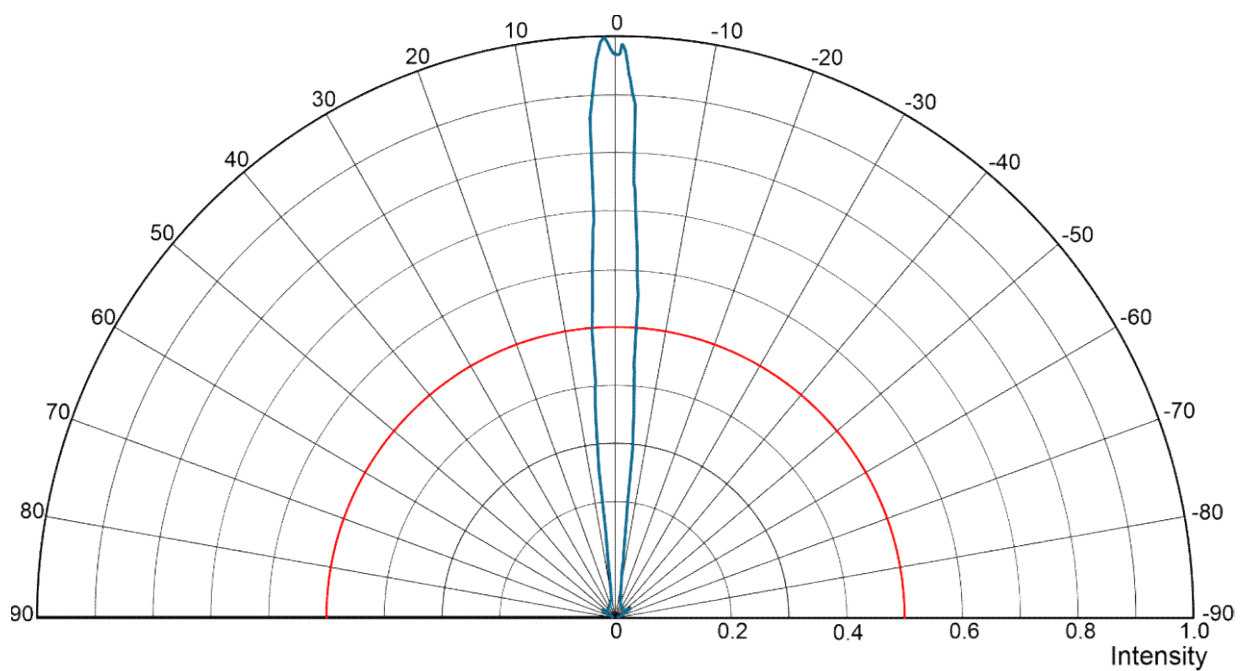
Fwd Current vs. Radiant Flux

@T_{ambient} = 25°C



Relative Radiation Angle

@20mA @ T_{ambient} = 25°C



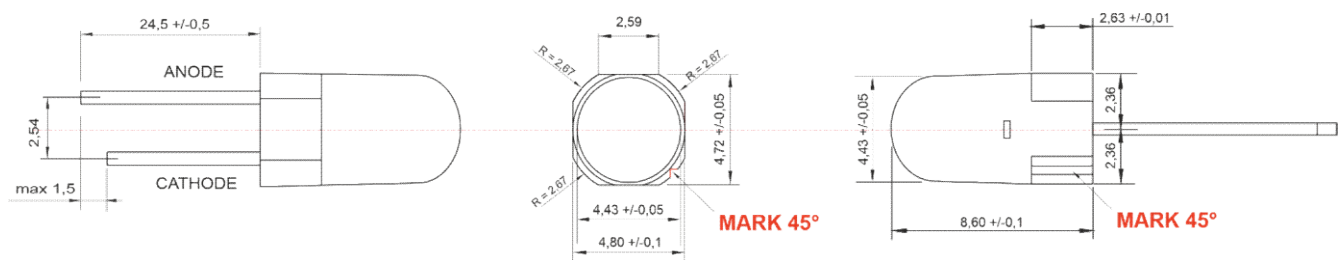
Pls. Contact us for more technical detail information !

CQR67595/96BBB

Order informations:

CQR67595/96BBB	Bulk (1000pcs/bag)
CQR67595/96BBB-TR	Taped in Reel (1500pcs/reel) on request
CQR67595/96BBB-TC	Bended according to customer specification (on request)

Mechanical Drawing



CREATIVE LED GMBH 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.