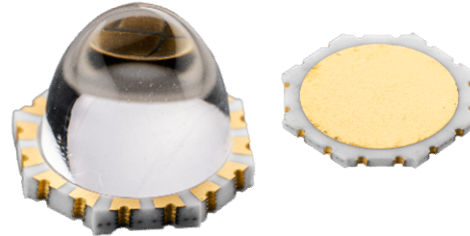


Product Specification**CQA97002UCN****260nm****UV-C LED**

creativeled.com

Features

- * Typ. Radiation of 15°
- * Based on AlGaIn substrat
- * Vacuumized Ceramic LED
- * High power and efficiency
- * Reflow-soldering
- * RoHs and REACH conform
- * Most efficient heat dissipation as backside can be soldered directly to heat sink (non-conductive)

**Applications**

Disinfection
 Phototherapy
 UV curing
 Fluorescent spectroscopy

*** Safety Note :**

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

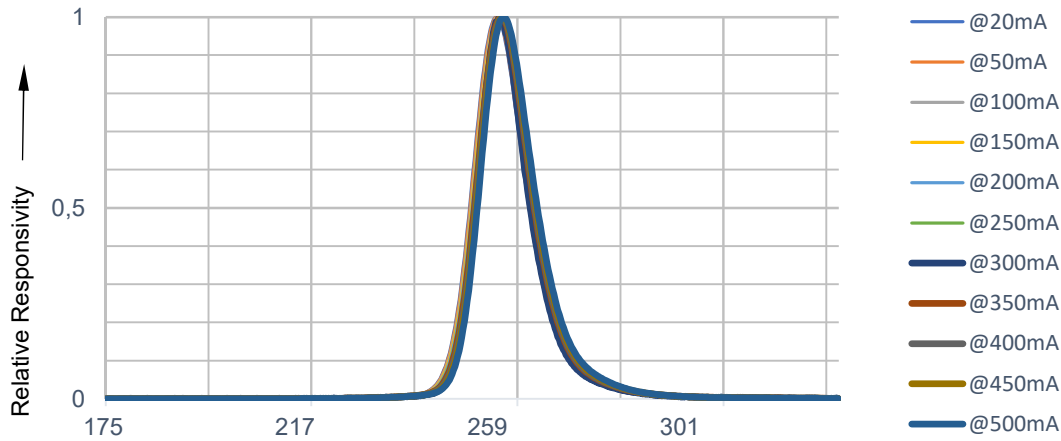
Optical and Electrical Characteristics @Tambient =25°C

Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
I F	DC Forward current			500	mA	
I Peak	Peak Forward current			2000	mA	Tp < 10µsec. ; T=1:100 ; Rtherm < 100K/W
V F	Forward Voltage	5,0		7,0	V	IF = 500mA
V R	Reverse Voltage			0	V	
λ Peak	Peak Wavelength	255		260	nm	IF = 20mA
Δλ 0,5	Bandwide of half power		13		nm	IF = 20mA
t r	Rise time		20		ns	
t f	Fall time		20		ns	
Φ E	Total Power Output		40		mW	IF = 350mA
I E	Radiant Intensity		90		mW/sr	IF = 150mA
2Φ 0,5	Full Emission Angle		15		deg.	ΦE = 50%
TK VF	Temp.Coeff. Of Forward Voltage		-0,01		mV/K	
T junction	LED-Junction Temperature			95	°C	
T Soldering	Soldering Temperature			240	°C	REFLOW SOLDER
T Operating	Operating Temperature	-30		85	°C	
T Storage	Storage Temperature	-40		85	°C	
R thJA	Thermal Resistance		2,3		K/W	
P tot	Total Power Dissipation			3500	mW	

CQA97002UCN

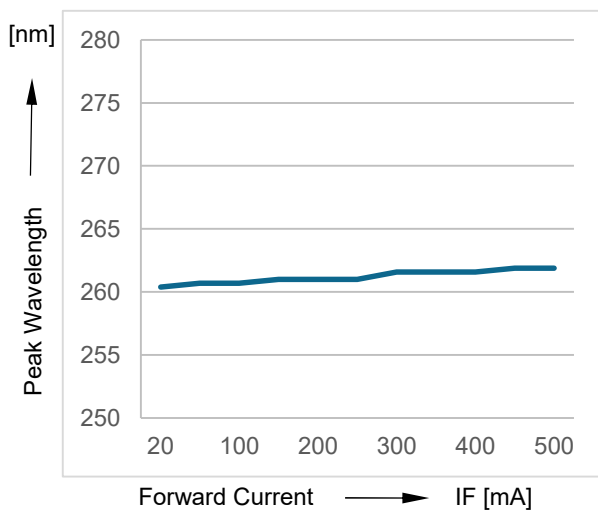
Relative Spectral Emission

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



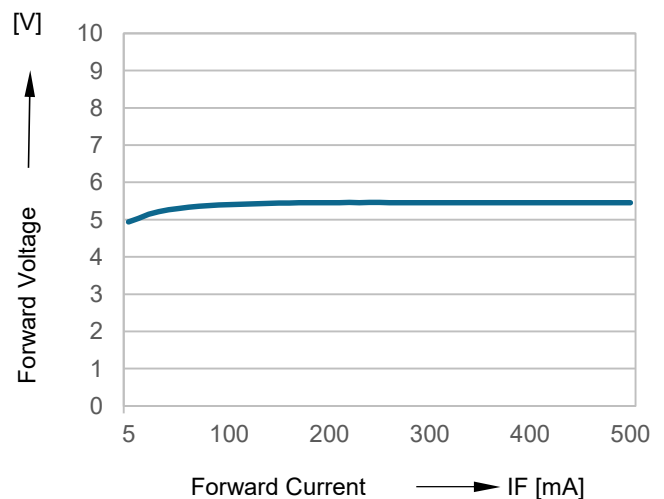
Fwd Current vs. Peak Wavelength

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



Fwd Voltage vs. Fwd Current

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

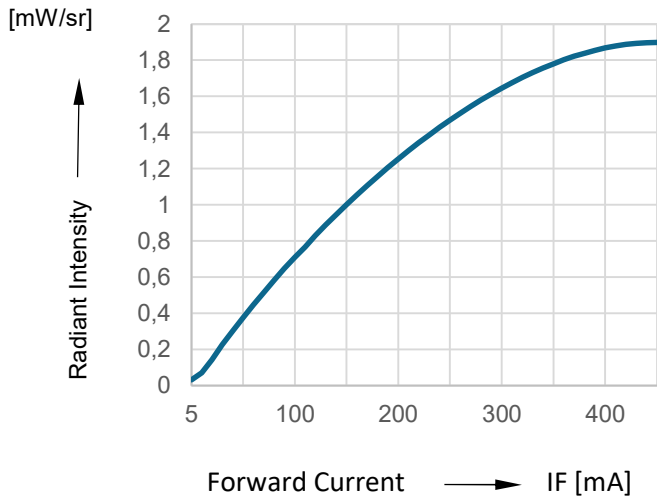


Pls. Contact us for more technical detail information !

CQA97002UCN

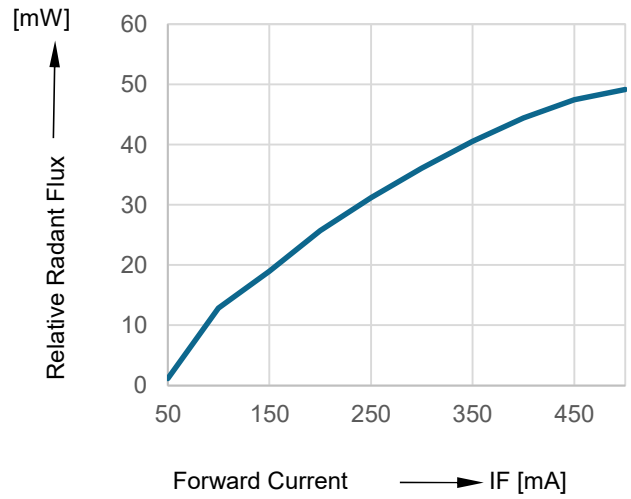
Fwd Current vs. Relative Radiant Intensity

@T_{ambient} = 25°C



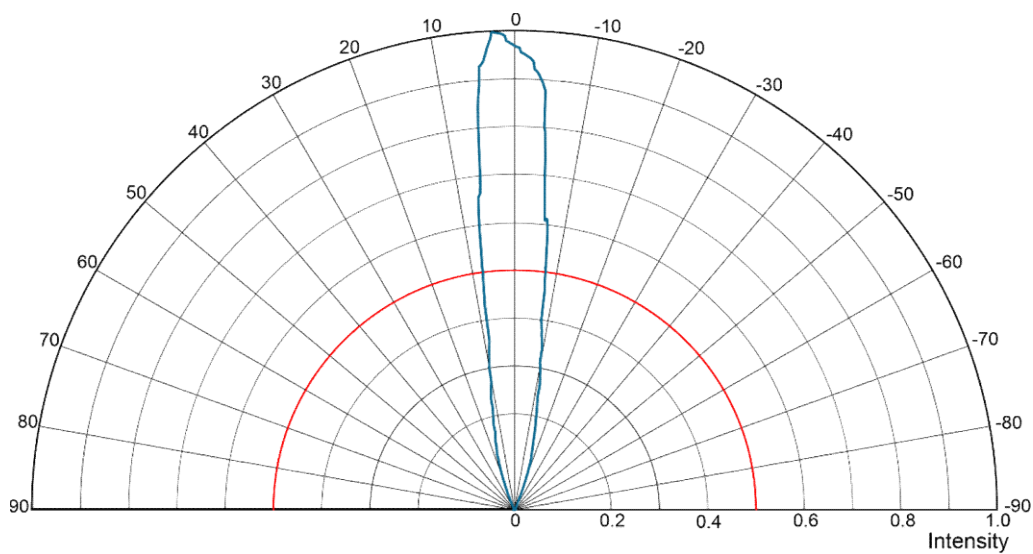
Fwd Current vs. Radiant Flux

@T_{ambient} = 25°C



Relative Radiation Angle

@20mA @ T_{ambient} = 25°C



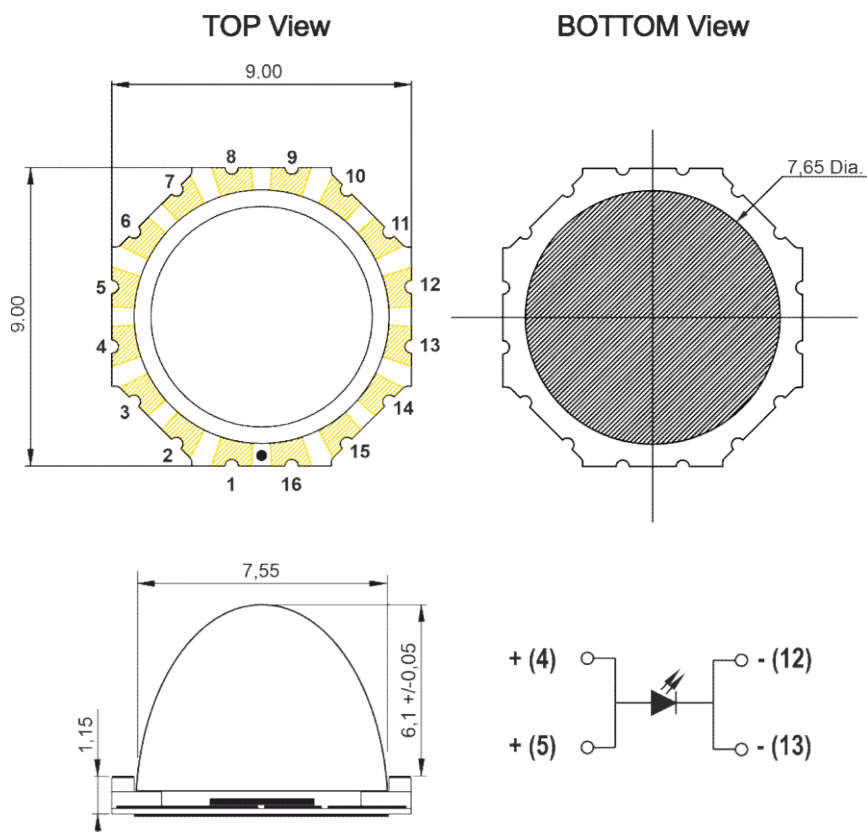
CQA97002UCN

Order informations:

CQA97002UCN

Bulk (20pcs./Bag) /standard)

Mechanical Drawing



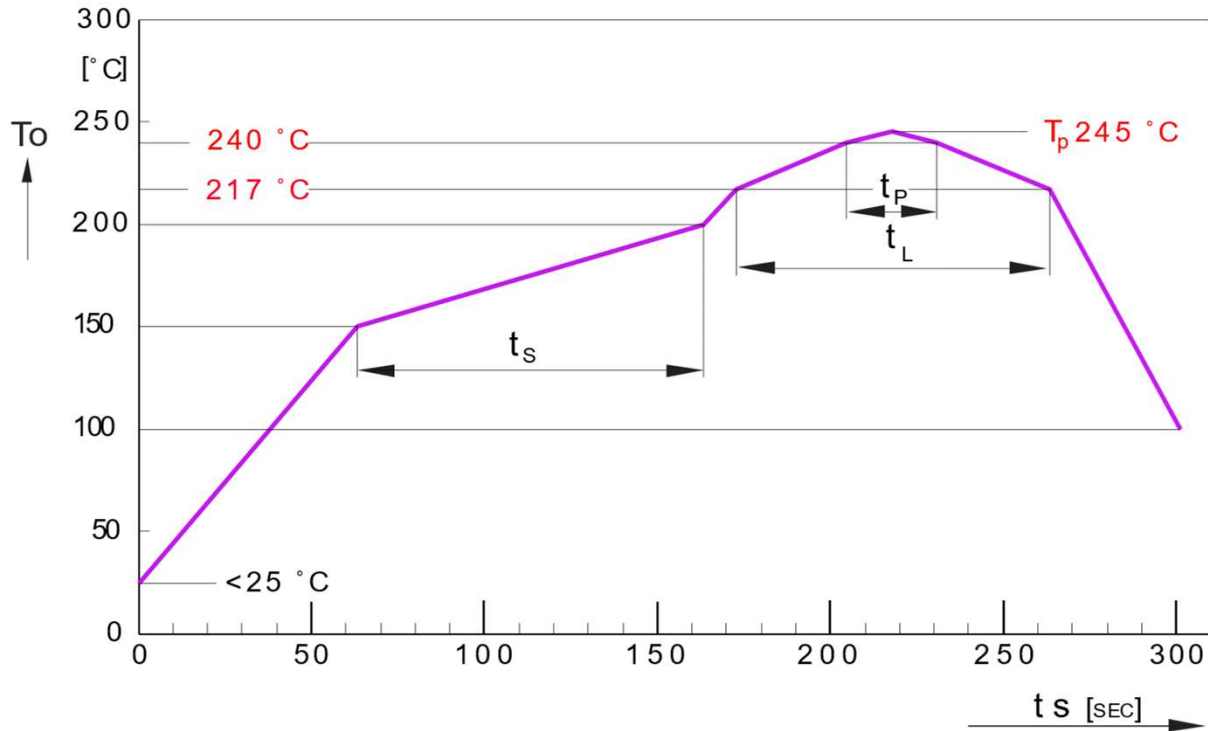
* The bottom side is not electrically conductive and can be glued or soldered directly to the heat sink.

CQA97002UCN

Reflow Soldering Profil:

Reflow Soldering Profile

Prec onditioning: JEDEC Level 3 acc. to JEDEC J-STD-020D.01



PROFIL FEATURES	SYMBOL	PB-FREE (SNAAGU) ASSEMBLY			UNIT
		MINIMUM	RECOMMENDATION	MAXIMUM	
RAMP-UP RATE TO PREHEAT ⁽¹⁾ 25 °C TO 150 °C			2	3	K/SEC
TIME T _S T _S MIN TO T _S MAX	T _S	60	100	120	SEC
RAMP-UP RATE TO PEAK ⁽¹⁾ T _S MAX TO T _P			2	3	K/SEC
LIQUIDUS TEMPERATURE	T _L		217		°C
TIME ABOVE LIQUIDUS TEMPERATURE	T _L		80	100	SEC
PEAK TEMPERATURE	T _P		240	245/260 ⁽²⁾	°C
TIME WITHIN 5 °C OF THE SPECIFIED PEAKTEMPERATURE	T _{P-SK}	10	20	30	SEC
RAMP DOWN RATE T _P TO 100 °C			3	6	K/SEC
TIME 25 °C TO T _P			300	480 ⁽²⁾	SEC

ALL TEMPERATURES REFERS TO THE CENTER OF THE PACKAGES, MEASURED ON THE TOP OF COMPONENT

(1) SLOPE CALCULATION DT/DT: DT MAX.5 SEC. ; FULFILLMENT FOR THE WHOLE T-RANGE

(2) THESE MAXIMUM VALUES ARE STRONG DEPEND ON THE REFLOW-SOLDERING EQUIPMENT AND APPLICATION

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.