

Features:

- * High radiant flux
- * Vertical electrode
- * Thin film structure
- * High driving current
- * RoHS and REACH conform

**Applications**

- * Fluorescent spectroscopy
- * Industrial
- * Phototherapy
- * Usable for reflow soldering

Optical and Electrical Characteristics @Tambient =25°C

Symbol	Parameter	Min	Typ	Max	Unit	Test conditions
I_F	DC Forward current			350	mA	Ta = 25°C
V_F	Forward Voltage	1.5		1.8	V	IF = 100mA
I_R	Reverse Current			10	µA	Vrev = 5V
λ_{Peak}	Peak Wavelength	830		835	nm	IF = 100mA
$\Delta\lambda_{0.5}$	Bandwidth of half power		35		nm	IF = 100mA
t_f	Fall time		3.5		µs	IF = 20mA
t_r	Rise time		7.8		µs	IF = 20mA
Φ_E	Total Radiant Flux	9		10	mW	IF = 20mA
I_e	Radiant Intensity	345		590	mW/sr	IF = 100mA
A	Active Array		0.1296		mm²	
$2\Phi_{0.5}$	Full Emission Angle		6		deg.	
TK_{VF}	Temp.Coeff. Of Forward Voltage		-1.6		mV/K	
TK_F	Temp. Coeff. Of Radiant Power		-0.4		%/K	
$T_{Operating}$	Operating Temperature	-40		85	°C	
$T_{Storage}$	Storage Temperature	-40		85	°C	
$T_{Soldering}$	Soldering Temperature			245	°C	Handflow/ Reflow
Q_{j-PIN}	Thermal Resistance		450		K/W	
P_{tot}	Total Power Dissipation @ 100mA			630	mW	

* values only for information

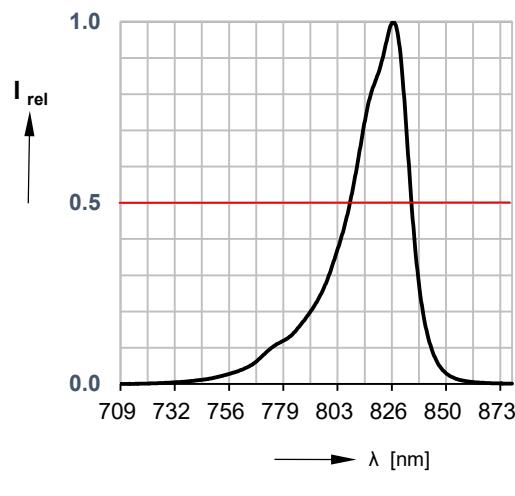
Pls. Contact us for more technical detail information !**Order informations:**

CQR67406EBB

1500 pcs

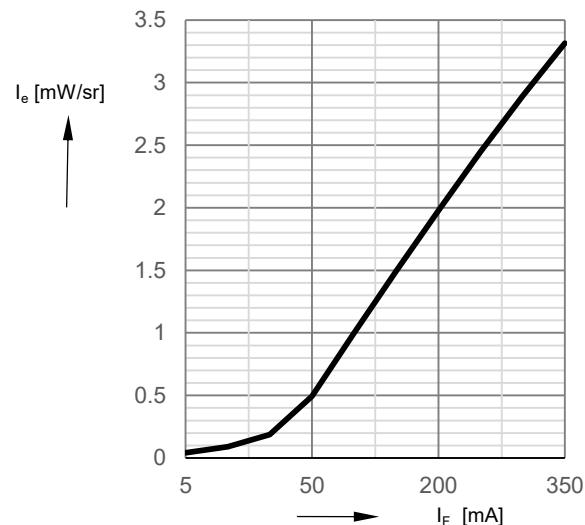
Relative Spectral Emission

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



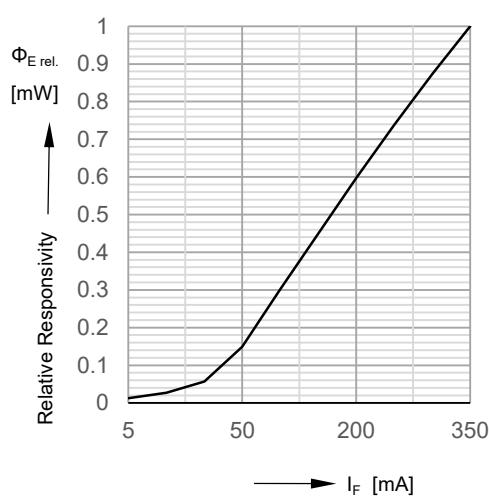
Radiant Intensity

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



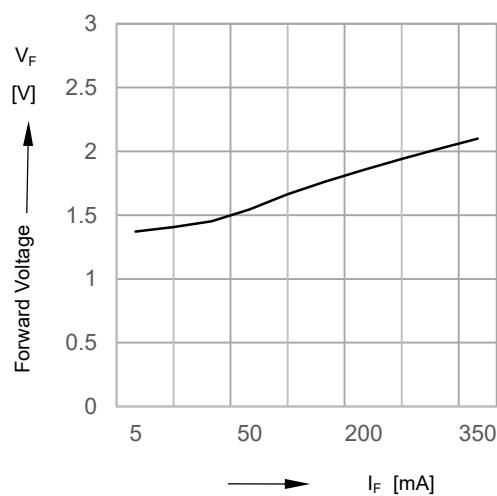
Relative Radiant Flux

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



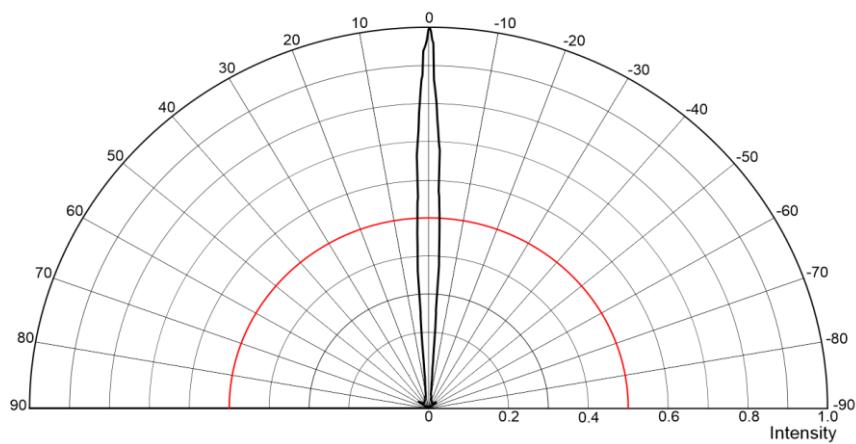
Forward Voltage

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

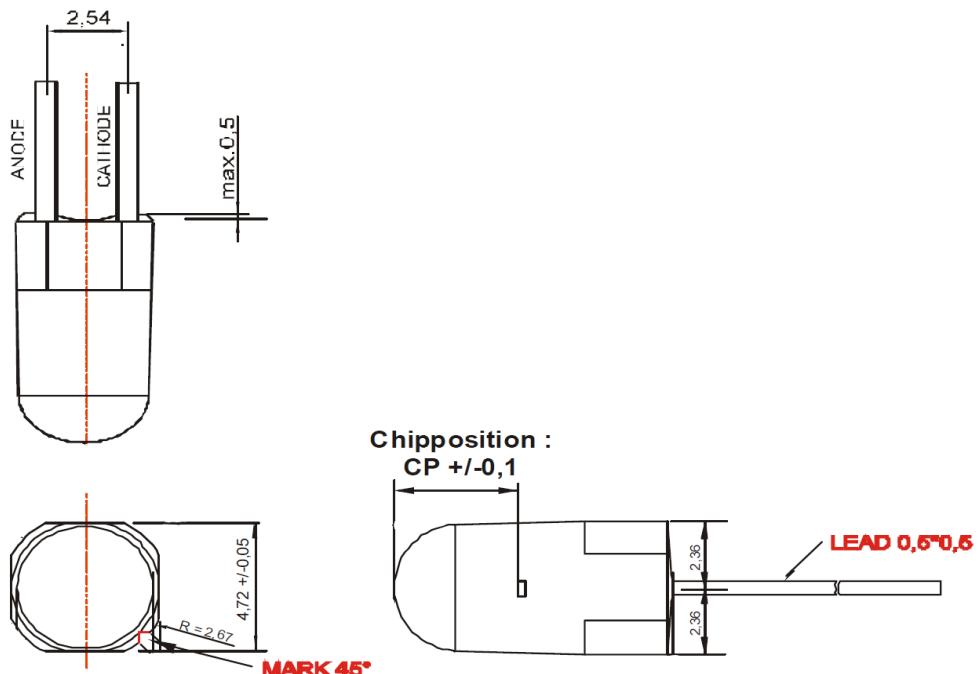


Relative Radiation Angle:

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



Mechanical Drawing:

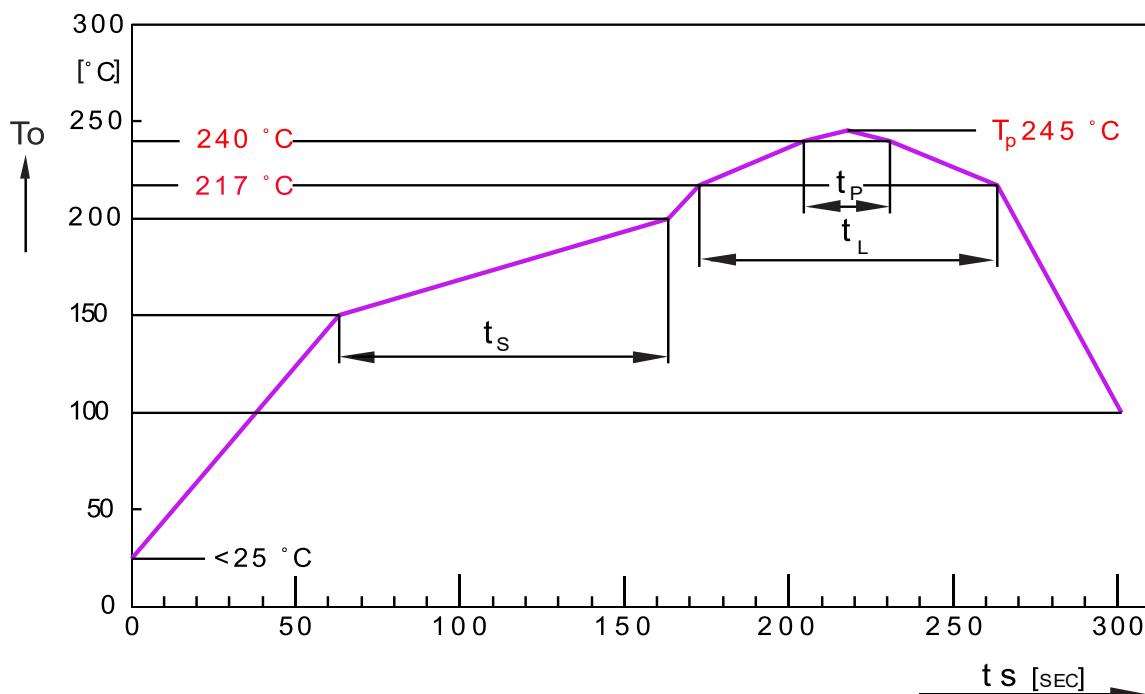


CREATIVE LED GMBH reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact us for latest device specification sheets before using.

Reflow Soldering Profile:

Reflow Soldering Profile

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



PROFIL FEATURES	SYMBOL	PB-FREE (SNAGCU) 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-5K}	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