CREATIVE GMBH LED®

CQA97312TFW 655nm RED LED

creativeled.com

Features

* High radiant flux
* Round emitting chip surface
* Vertical electrode
* High driving current
* Most efficient heat dissipation as backside can be soldered directly to heat sink (non-conductive)
* RoHs and REACH conform

Applications

* Point Source
* Phototherapy

Optical and Electrical Characteristics @Tambient =25°C

Symbol	Parameter	Min	Typ	Max	Unit	Test conditions
I_F	DC Forward current			1000	mA	
I_{Peak}	Peak Forward current			2000	mA	Tp < 10µsec. ; T=1:100 ; Rtherm < 100K/W
V_F	Forward Voltage	1.4		2.8	V	IF = 100mA
λ_{Peak}	Peak Wavelength		655		nm	IF = 100mA
$\Delta\lambda_{0.5}$	Bandwidth of half power		18		nm	IF = 20mA
t_f	Fall time			100	ns	IF = 100mA
t_r	Rise time			100	ns	IF = 100mA
Φ_E	Total Radiant Flux		74		mW	IF = 1000mA
I_e	Radiant Intensitiy	1100	1250		mW/sr	IF = 1000mA
A	Chip Size		2.032		mm²	
$2\Phi_{0.5}$	Full Emission Angle		27		deg.	
TK_{VF}	Temp.Coeff. Of Forward Voltage		TBA		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	Reflow
$Q_{j\text{-}PIN}$	Thermal Resistance		2.3		K/W	
P_{tot}	Total Power Dissipation @ 20mA			2800	mW	

* values only for information

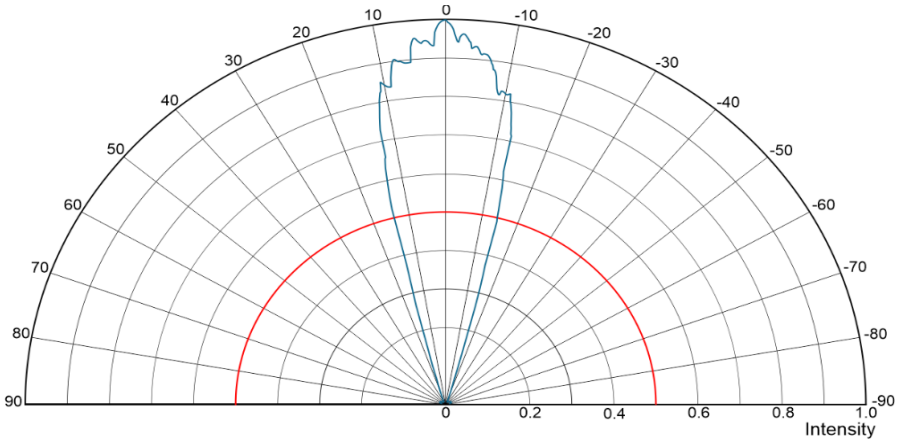
Order information

CQA97312TFW	Bulk (20pcs./Bag) / standard

Pls. Contact us for more technical detail information !

Relative Radiation Angle

@20mA @ $T_{ambient}$ = 25°C



Mechanical Drawing