

CQR35570TUL**870nm****IR LED
Edged Corner Bonded**

creativeled.com

Features

- * Reflow-soldering
- * RoHs and REACH conform
- * Edge Corner Chip

**Applications**

- * Cat-2 Safety Light Guard
- * 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			150	mA	
I Peak	Peak Forward current			400	mA	TP < 10µsec. ; T=1:100 ; Rtherm < 100K/W
V F	Forward Voltage		1.5	1.8	V	IF = 20mA
λ Peak	Peak Wavelength	860	865		nm	IF = 20mA
Δλ 0.5	Bandwidth of half power		46		nm	IF = 20mA
t r	Rise time		3.5		µs	
t f	Fall time		7.8		µs	
Φ E	Total Power Output		60		mW	IF = 100mA
I E	Radiant Intensity	15	17		mW/sr	IF = 100mA
2Φ 0.5	Full Emission Angle		110		deg.	ΦE = 50%
A	Chip size		0.132		mm²	
TK VF	Temp.Coeff. Of Forward Voltage		-1.5		mV/K	
T junction	LED-Junction Temperature			110	°C	
T Soldering	Soldering Temperature			240	°C	REFLOW SOLDER
T Operating	Operating Temperature	-40		85	°C	
T Storage	Storage Temperature	-40		85	°C	
R thJA	Thermal Resistance		450		K/W	
P tot	Total Power Dissipation			262.5	mW	

Order informations:

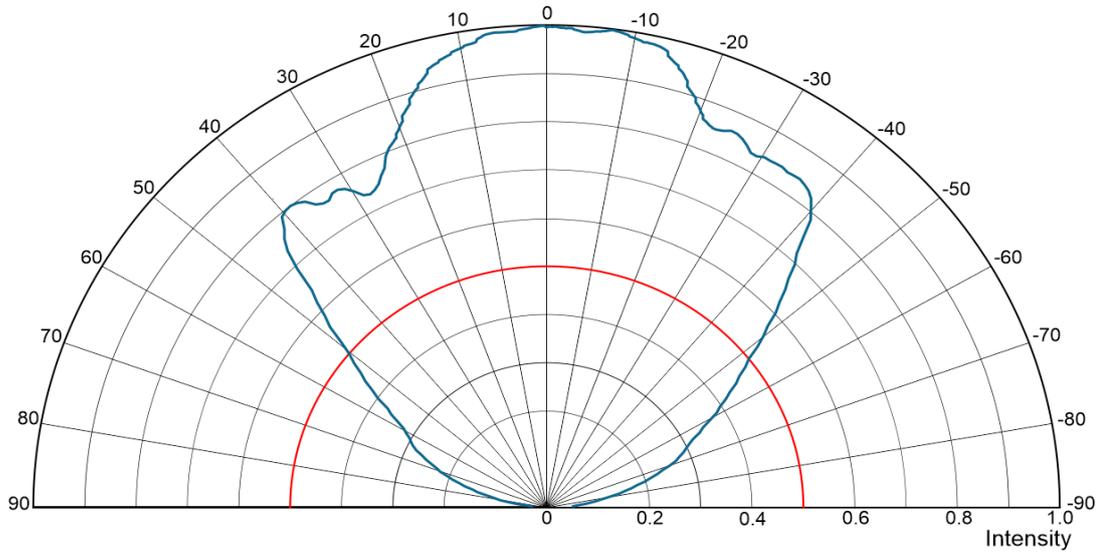
CQR35570TUL

Bulk (1000pcs./Bag) /standard)

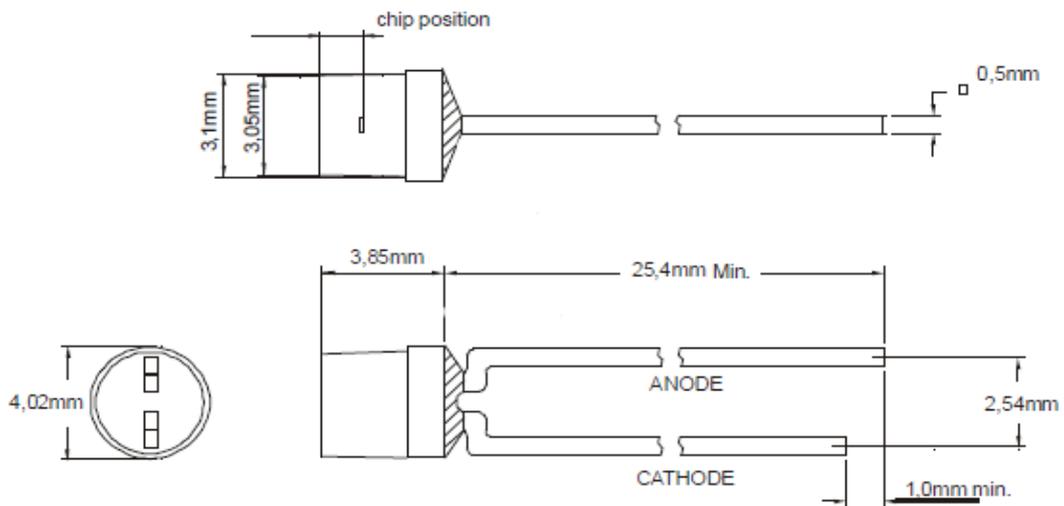
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Relative Radiation Angle

@20mA @ T_{ambient} = 25°C



Mechanical Drawing



ALL TOLERANCE SHALL BE +/- 8mil / 0,2mm

Pls. Contact us for more technical detail information !