QT-Brightek PLCC Series

PLCC2 High Bright Red LED

Part No.: QBLP669-R-2897

2897: High Brightness Version

Table of Contents:

Introduction

Feature:

- Package in tape and reel
- Ultra bright reflector type PLCC2 LED
- AlInGaP technology for red
- Viewing angle 120 degree typ.
- High Bright Version

Description:

These ultra bright reflector type PLCC2 LEDs have a height profile of 1.90mm. Combination of high brightness output and robust package, these LEDs are ideal for architecture lighting, status indication, and industrial equipment lighting applications.

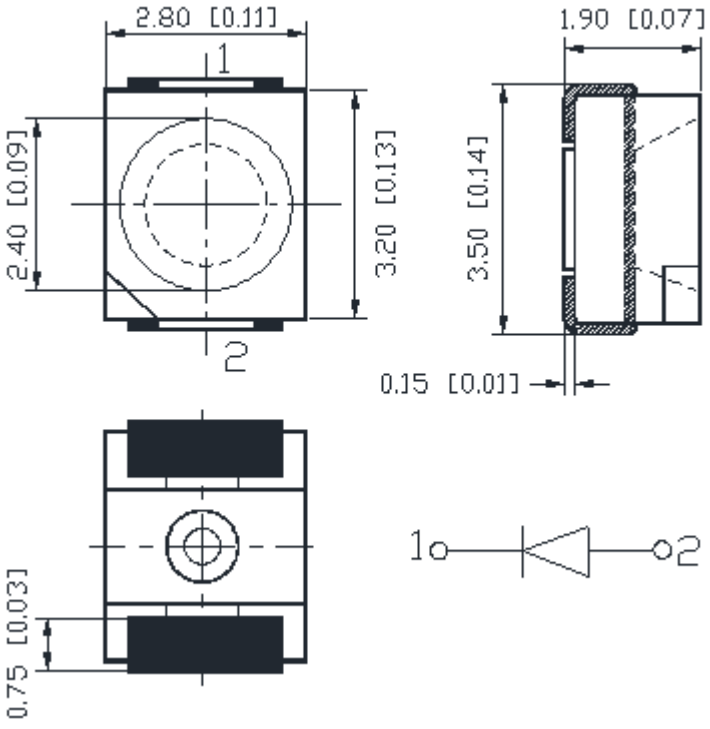
Application:

- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

Dimension:



Units: mm / tolerance = +/-0.2mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I_F (mA)	V_F (V)		λ_D (nm)			I_V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
QBLP669-R-2897	Red	20	2.0	2.5	617	621	627	600	860

Absolute Maximum Rating

Material	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
AlInGaP	75	30	125	5	-40 to +105	-40 to +105	260

*Duty 1/8 @ 1KHz
**IR Reflow for no more than 10 sec @ 260 °C

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
□	1.7	2.5	V

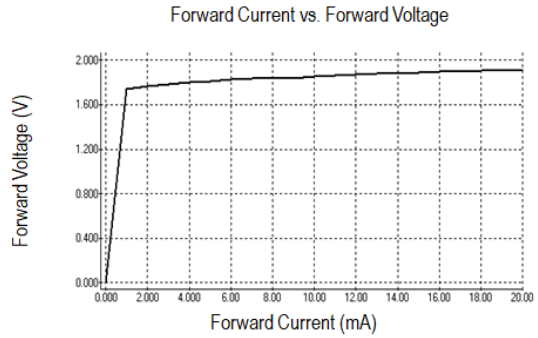
Luminous Intensity I_V @ I_F=20mA

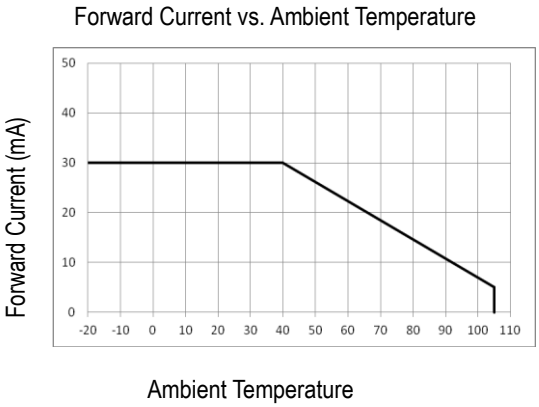
Bin	Min.	Max.	Unit
1	600	750	mcd
2	750	940	
3	940	1150	

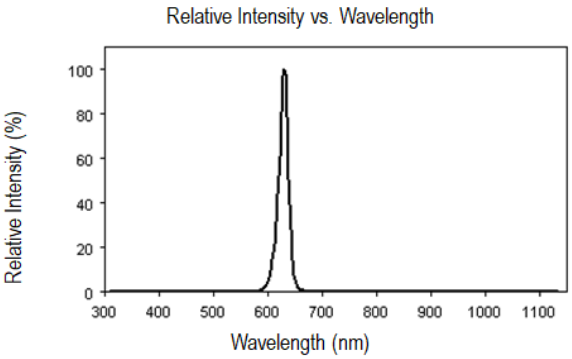
Dominant Wavelength λ_D @ I_F=20mA

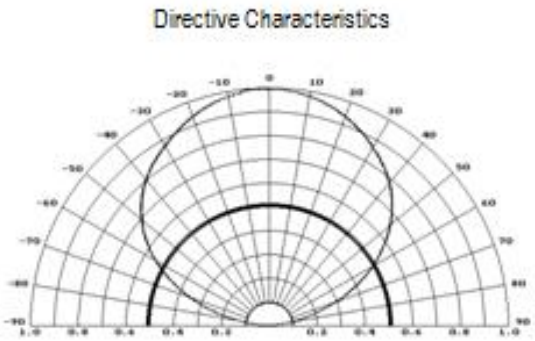
Bin	Min.	Max.	Unit
A	617	622	nm
B	622	627	

Characteristic Curves



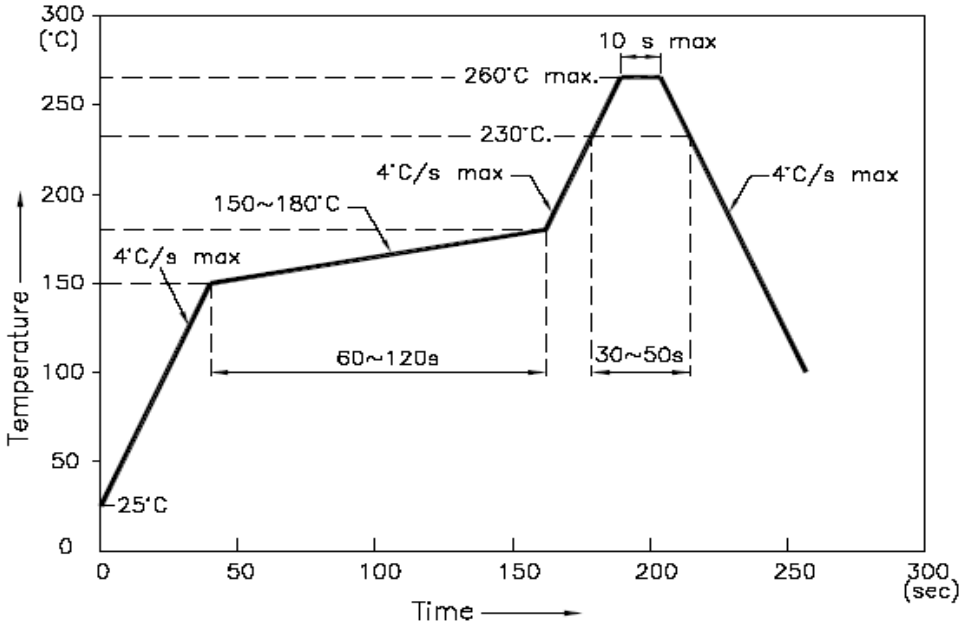




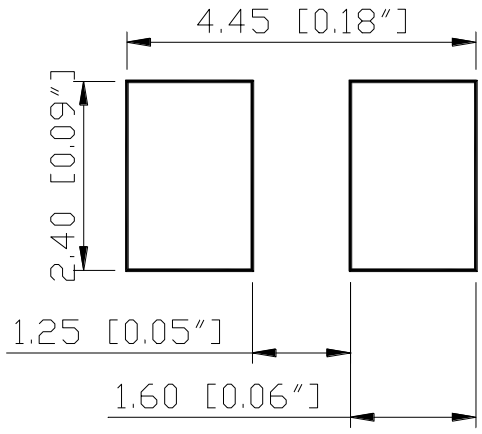


Solder Profile & Footprint

-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



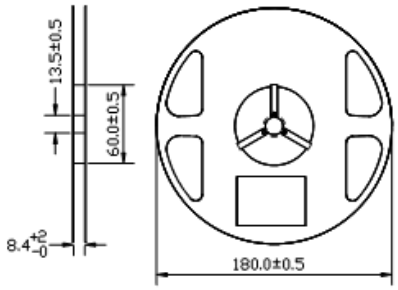
Recommended Pad Layout



Units: mm

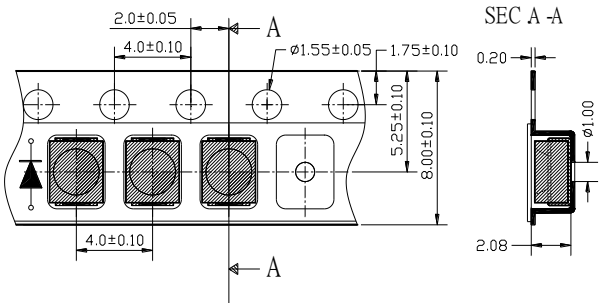
Packing

Reel Dimension:



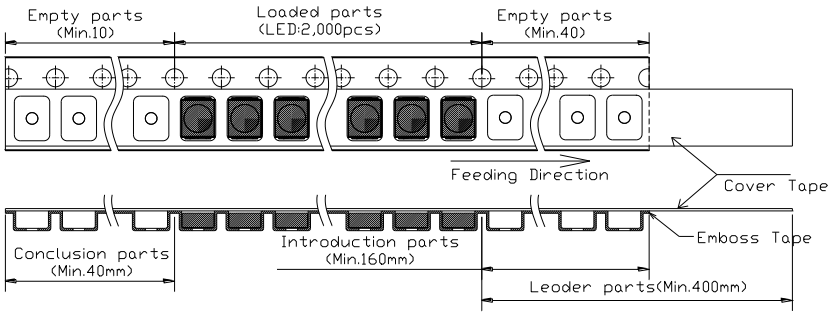
Unit: mm

Tape Dimension:

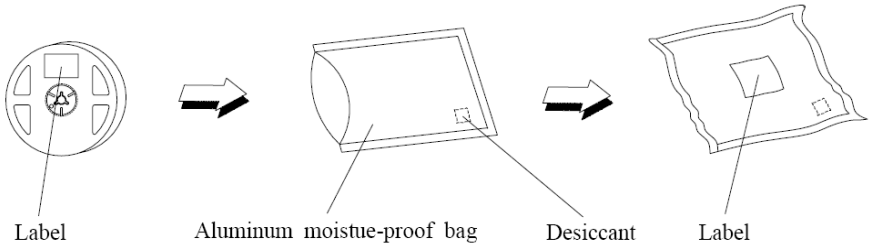


Unit: mm

Arrangement of Tape:



Packaging Specifications:



Labeling

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP669-R-2897	QBLP669-R-2897	Iv=860mcd typ. @ 20mA / Color=617nm to 627nm	2,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP669-R-2897	V1.0	10/14/2021

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.