

QT-Brightek Chip LED Series SMD 1209 Blue LED

Part No.: QBLP653R-IB5-2897

R: Reverse Mount 5: 5mA

2897: High Brightness Version

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Introduction

Feature:

- Water clear lens
- Package in tap and reel
- Reverse mount (bottom entry)
- Bright 1209 LED package
- Beam angle: 15 deg typ.
- Pkg height: 2.5mm

Application:

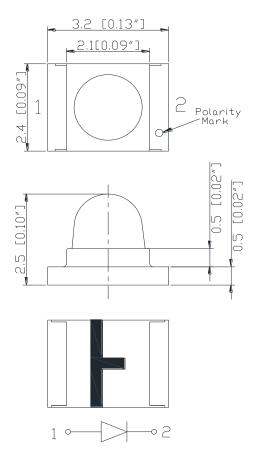
- Status indication
- Back lighting application
- Light pipe
- Emergency lighting

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.15mm

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Electrical / Optical Characteristic (Ta=25 °C)

Product Color I _F (mA)		V _F	(V)		λ _D (nm)		λ _P (nm)	I _V (n	ncd)	
Product	COIOI	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.
QBLP653R-IB5- 2897	Blue	5	2.7	3.4	465	470	475	465	500	950

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)**
InGaN	102	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
е	2.5	2.8	
f	2.8	3.1	V
g	3.1	3.4	

Luminous Intensity I_V @ I_F=5mA

Bin	Min.	Max.	Unit
Q	500	630	
R	630	800	
S	800	1000	mcd
T	1000	1250	
U	1250	1600	

Dominant Wavelength λ_D @ $I_F=5mA$

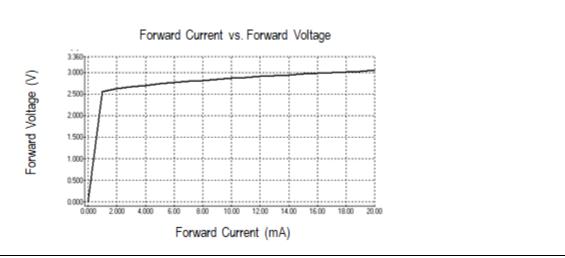
Bin	Min.	Max.	Unit
G	465	467.5	
Н	467.5	470	nm
I	470	472.5	nm
J	472.5	475	

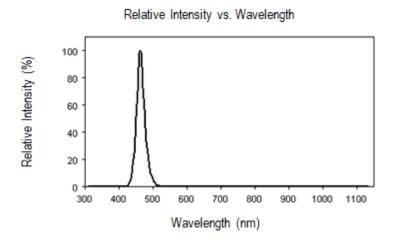
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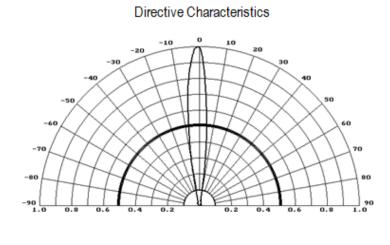
^{**}IR Reflow for no more than 10 sec @ 260 °C



Characteristic Curves





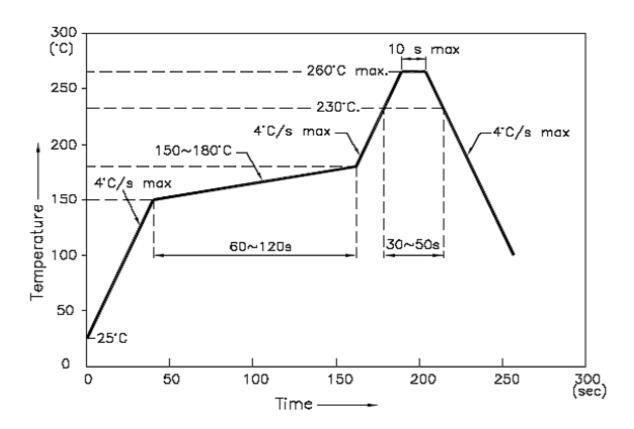


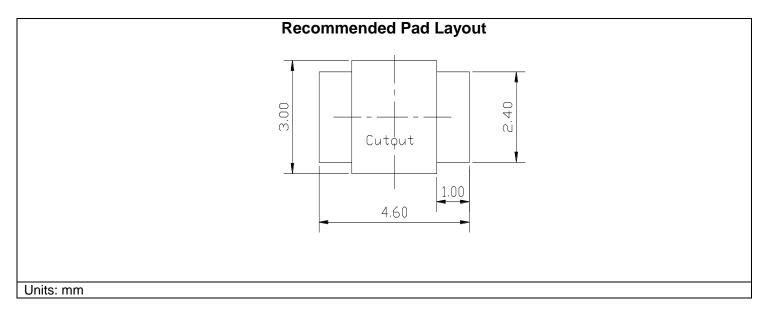
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Solder Profile & Footprint

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



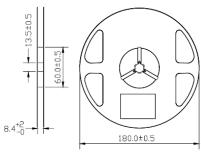


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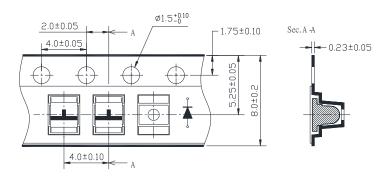
Packing

Reel Dimension:



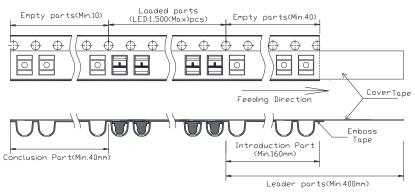
Unit: mm

Tape Dimension:

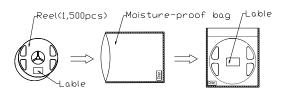


Unit: mm

Arrangement of Tape:



Packaging Specification:



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Labeling

	<u>69</u>	QT-Brightek	Ross		
Par	t No:				
Cus	Customer P/N:				
<u>ltem</u>	n:				
Q'ty	· <u>-</u>				
<u>∨f:</u>					
lv:		_			
WI:					
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Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP653R-IB5-2897	Iv=950mcd typ. / Color = 465nm to 475nm @ 5mA	1,500 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP653R-IB5-2897	V1.0	07/03/2024

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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.

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