

QT-Brightek Chip LED Series

SMD 1209 Red LED

Part No.: QBLP653R-R5

R: Reverse Mount 5: 5mA

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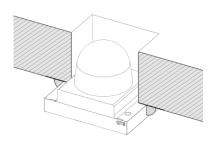
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Introduction

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:

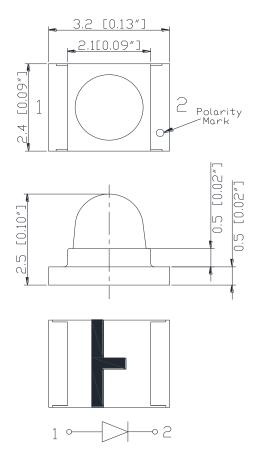
- Status indication
- Back lighting application
- Light pipe
- Signal

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		I _F (mA)	V _F	$V_{\rm F}(V)$ $\lambda_{\rm D}$ (nm)		λ _P (nm)	I _V (n	ncd)		
Product	Coloi	IF (IIIA)	Тур.	Max.	Min.	Тур.	Max.	Тур.	Min.	Тур.
QBLP653R-R5	Red	5	1.8	2.3	615	621	630	628	400	700

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)**
	AllnGaP	69	30	125	5	-40 ~ +80	-40 ~ +85	260

^{*}Duty 1/8 @ 1KHz

Forward Voltage V_F @ I_F=5mA

Bin	Min.	Max.	Unit
	1.7	2.3	V

Luminous Intensity I_V @ I_F=5mA

	y •		
Bin	Min.	Max.	Unit
Р	400	500	
Q	500	630	
R	630	800	mcd
S	800	1000	
T	1000	1250	

Dominant Wavelength λ_D @ $I_F=5mA$

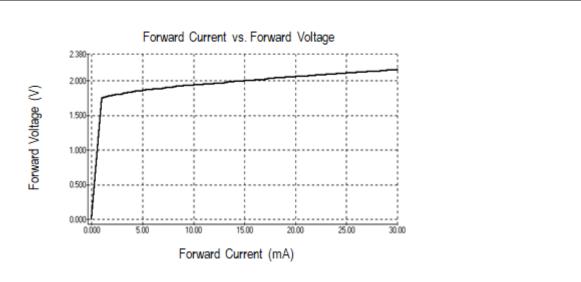
Bin	Min.	Max.	Unit
S	615	620	
t	620	625	nm
u	625	630	

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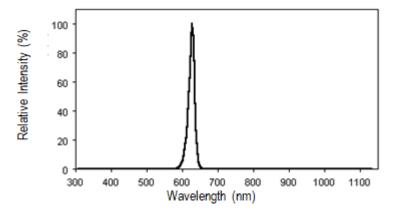
^{**}IR Reflow for no more than 10 sec @ 260 °C



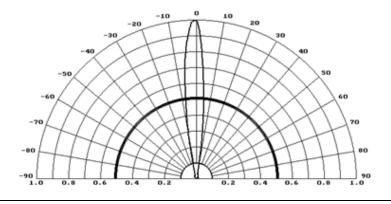
Characteristic Curves







Directive Characteristics

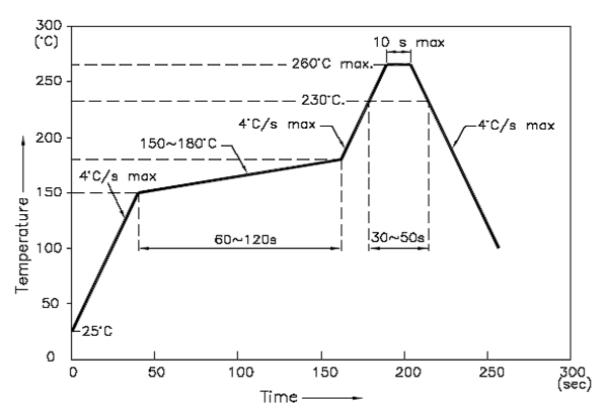


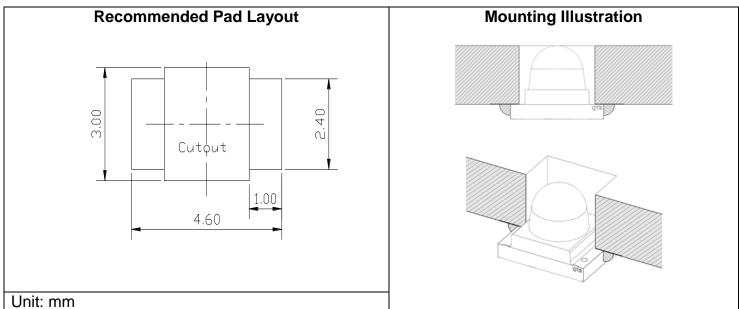
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Solder Profile & Footprint

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



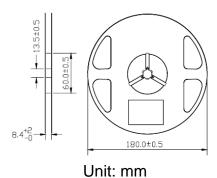


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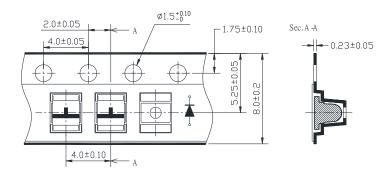


Packing

Reel Dimension:

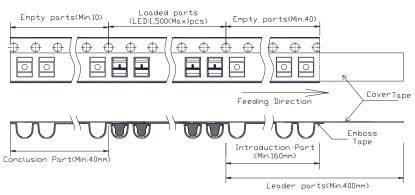


Tape Dimension:

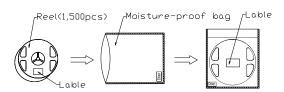


Unit: mm

Arrangement of Tape:



Packaging Specification:



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Labeling

Part No:
Customer P/N:
ltem:
Q'ty:
Vf:
Iv:
WI:
Date:

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP653R-R5	Iv=700mcd typ. / Color = 615nm to 630nm @ 5mA	1,500 units

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Revision History

Description:	Revision #	Revision Date
New Release of QBLP653R-R5	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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