

QT-Brightek Lamp Series
5mm RGB Tri-Color Round Lamp

Part No.: QBL8RGB60D0-2897

2897: High Brightness Version
D: White Diffused Lens
0: Common Anode



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Electrical / Optical Characteristic (T=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
QBL8RGB60D0-2897	Red	20	2.0	2.4	-	624	-	800	1300
	Green		3.2	3.6	-	525	-	1600	2200
	Blue		3.2	3.6	-	470	-	500	800

Absolute Maximum Rating

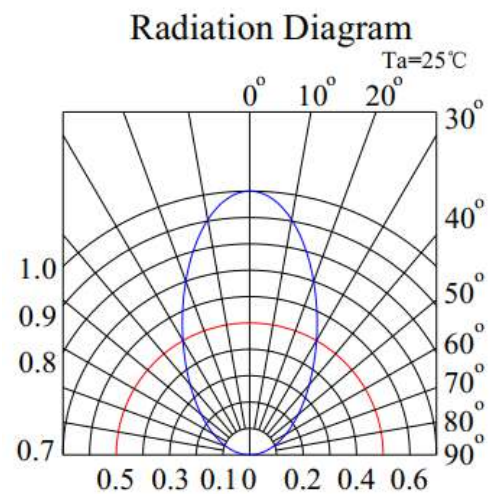
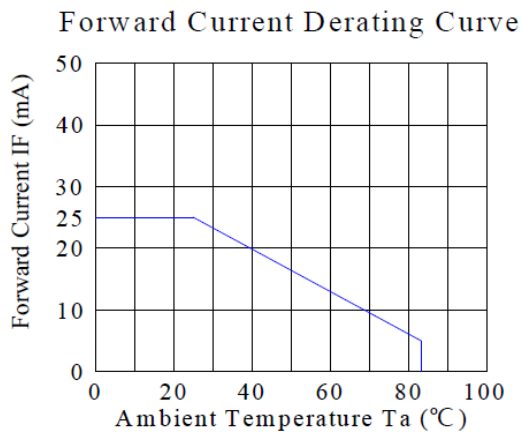
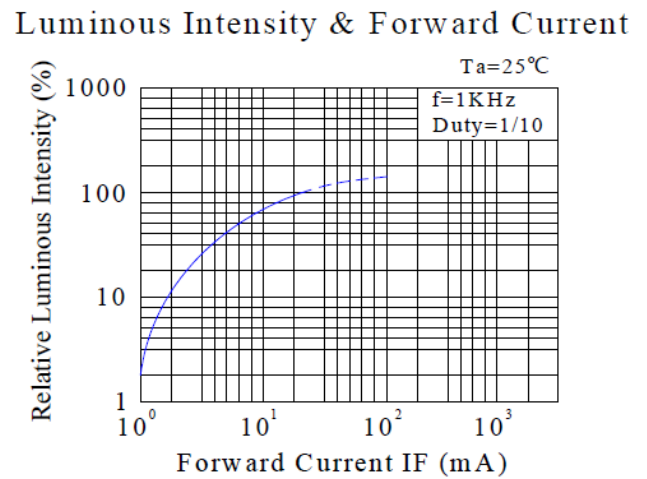
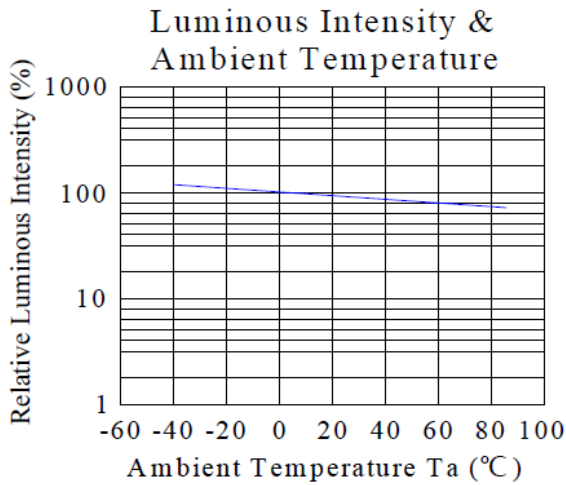
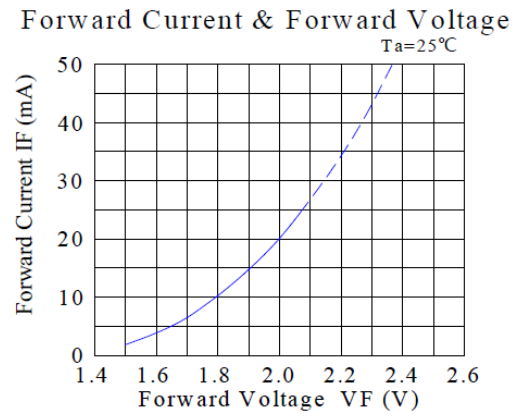
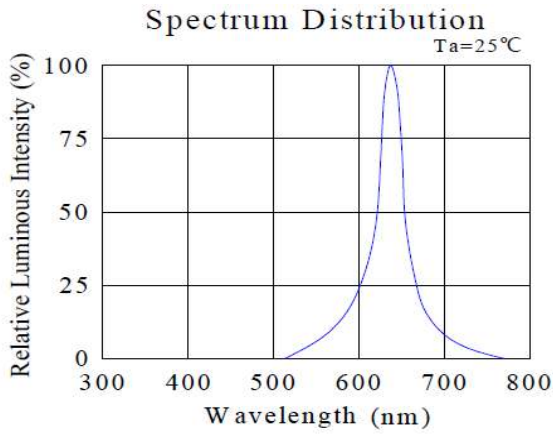
Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AllnGaP (R)	60	25	100	5	-40 to + 85	-40 to +100	260
InGaN (IB/IG)	90	25	100	5	-40 to + 85	-40 to +100	260

*Duty 1/10 @ 1KHz

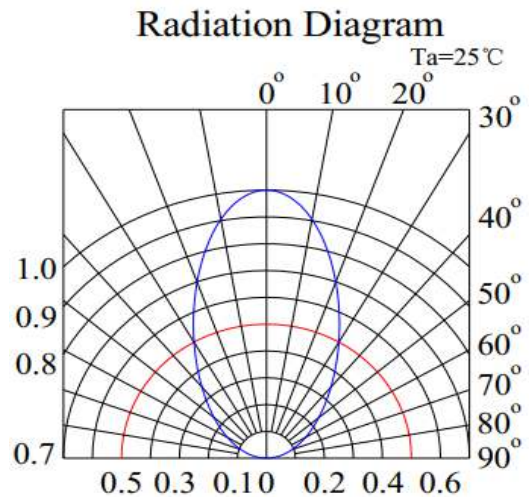
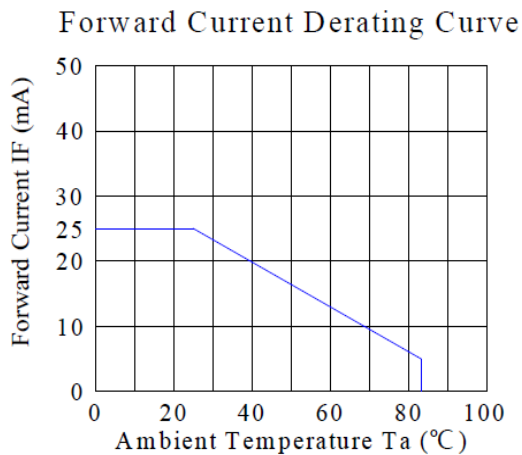
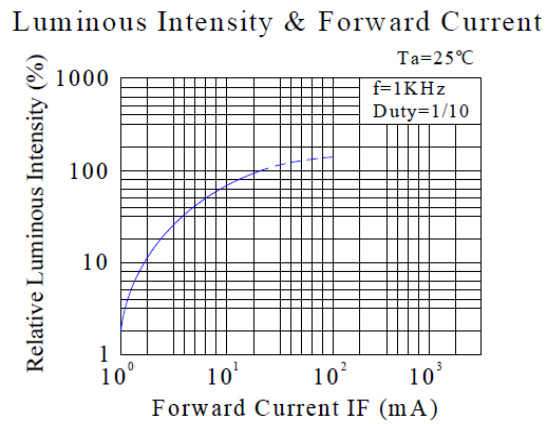
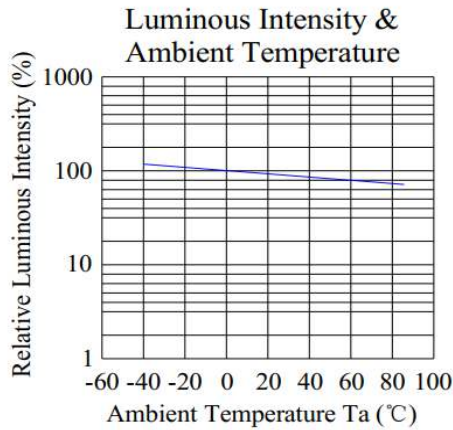
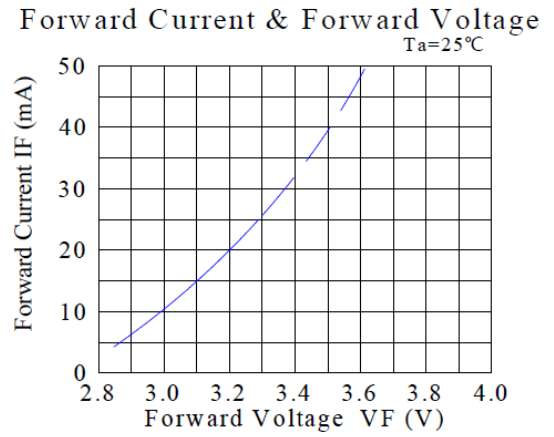
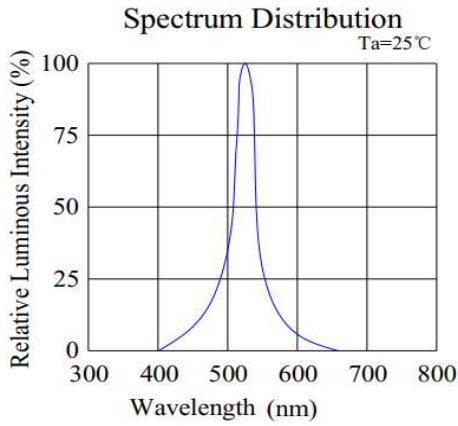
**Wave soldering for no more than 5 sec @ 260 °C

Characteristic Curves

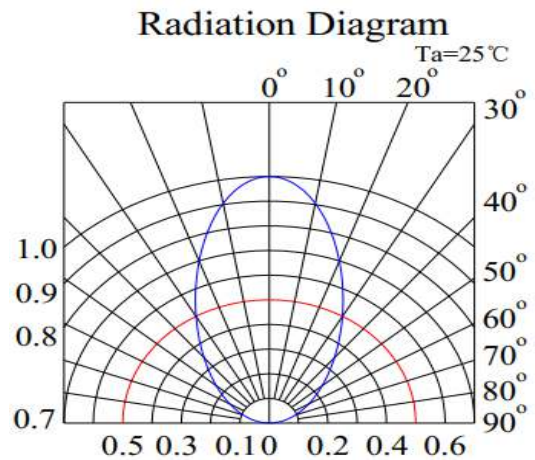
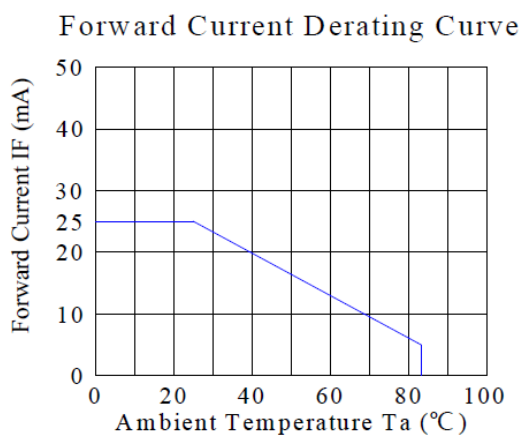
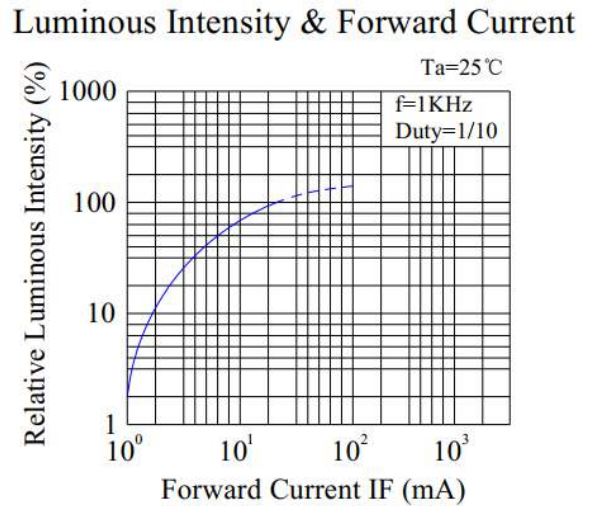
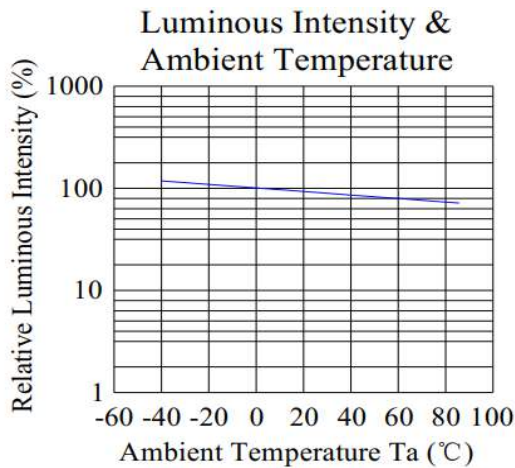
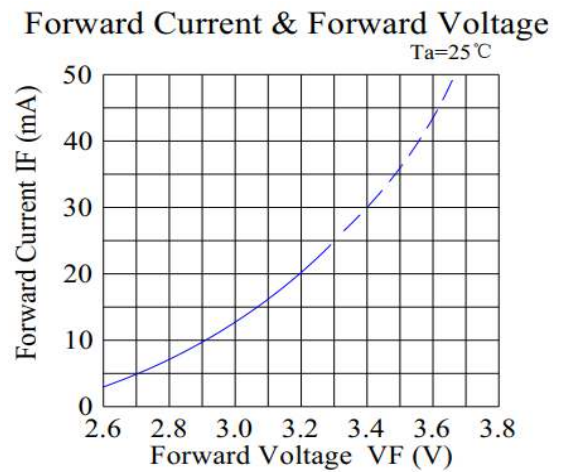
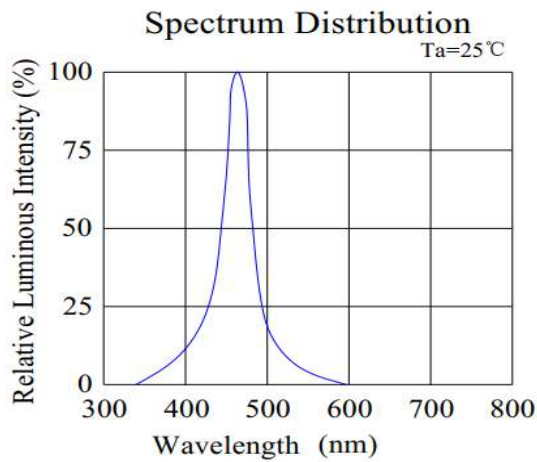
Red (R)



Green (IG)



Blue (IB)





Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8RGB60D0-2897	QBL8RGB60D0-2897	Red: $I_v=1300\text{mcd typ. @ } I_F=20\text{mA}, \lambda_D=624\text{nm typ.}$	1000pcs
		Green: $I_v=2200\text{mcd typ. @ } I_F=20\text{mA}, \lambda_D=525\text{nm typ.}$	
		Blue: $I_v=800\text{mcd typ. @ } I_F=20\text{mA}, \lambda_D=470\text{nm typ.}$	



Revision History

Description:	Revision #	Revision Date
New Release of QBL8RGB60D0-2897	V1.0	04/23/2019

Disclaimer

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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.