

5mm Round Bi-Color LED (T-1 3/4)

Features

- Two chips are matched for uniform light output
- Wide viewing angle
- Long life-solid state reliability
- I.C. compatible/ Low power consumption
- RoHS compliance



T-1 3/4



Descriptions

- The series contain two integral chips and is available as both bicolor and bipolar types.
- Types of bipolar lamps are both white diffused and color diffused while the bicolor are white diffused.

Applications

- TV set
- Monitor
- Telephone
- Computer

Device Selection Guide

Part No.	Chip			Lens Color
	Color Code	Material	Emitted Color	
TBH-QF2CR5-3391A3	Q	AllnGaP	Super Red	White Diffused
	F	AllnGaP	Yellowish Green	

Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	Super Red: 25	mA
		Yellowish Green: 25	
Peak Forward Current (Note.1)	IFP	Super Red: 160	mA
		Yellowish Green: 160	
Power Dissipation	Pd	Super Red: 60	mW
		Yellowish Green: 60	
Electrostatic Discharge	ESD	2000	V
Operating Temperature	Topr	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature	Tstg	-40 ~ +100	$^{\circ}\text{C}$
Soldering Temperature (Note.2)	Tsol	260 \pm 5	$^{\circ}\text{C}$

Note 1: Pulse Width ≤ 1 msec and duty $\leq 1/10$

2. Soldering time ≤ 5 seconds

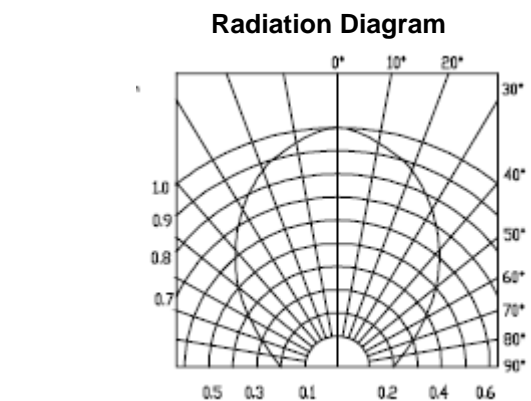
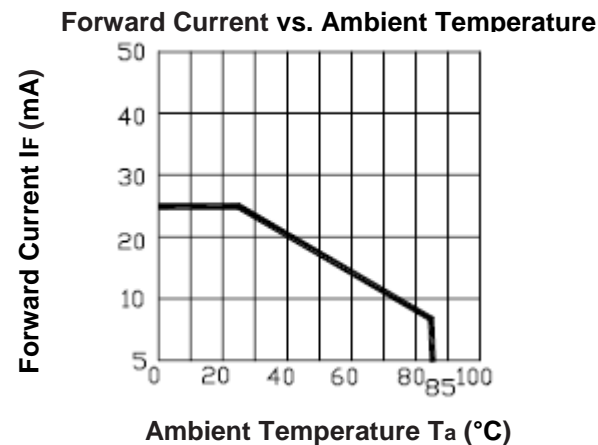
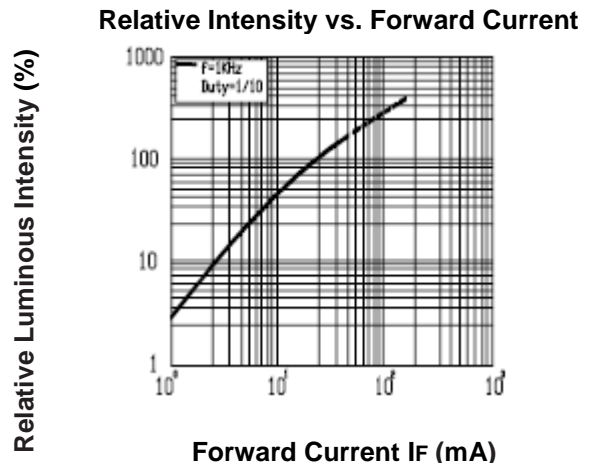
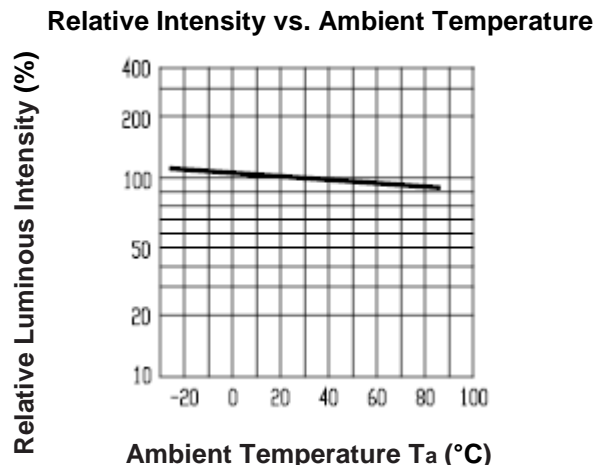
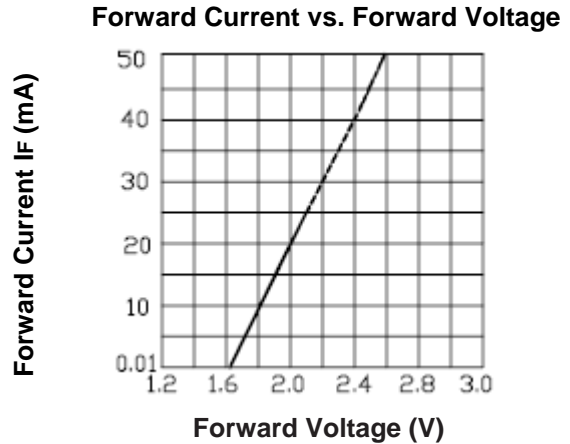
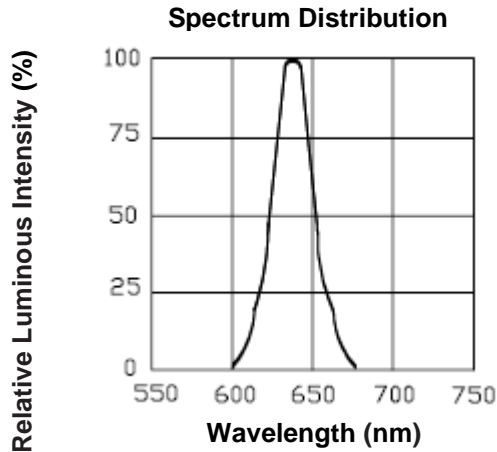
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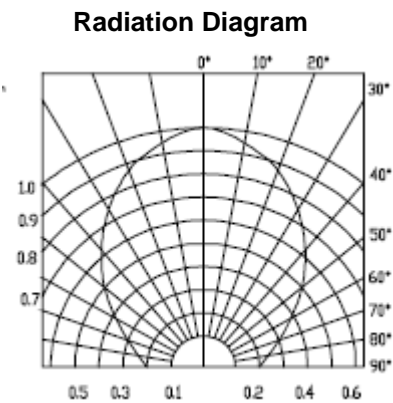
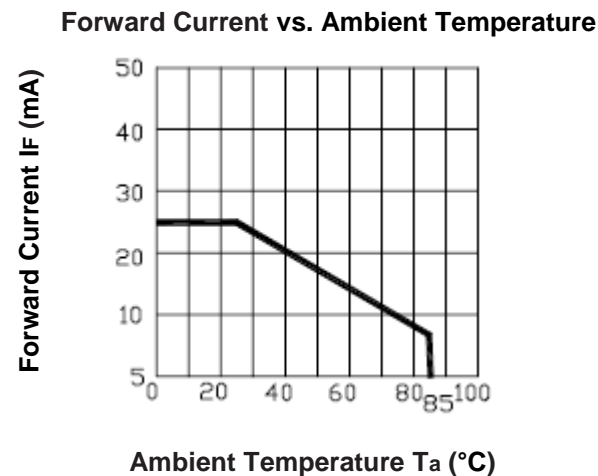
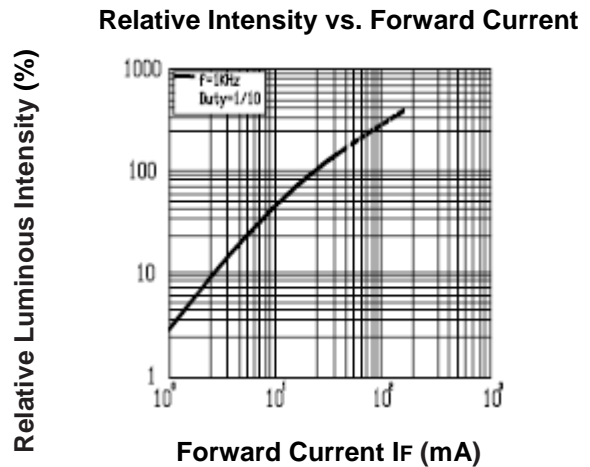
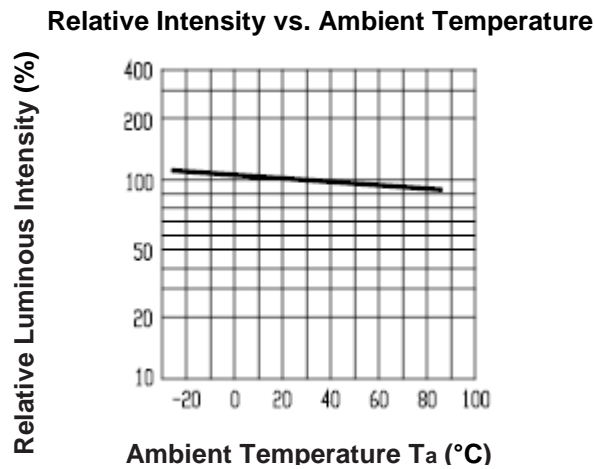
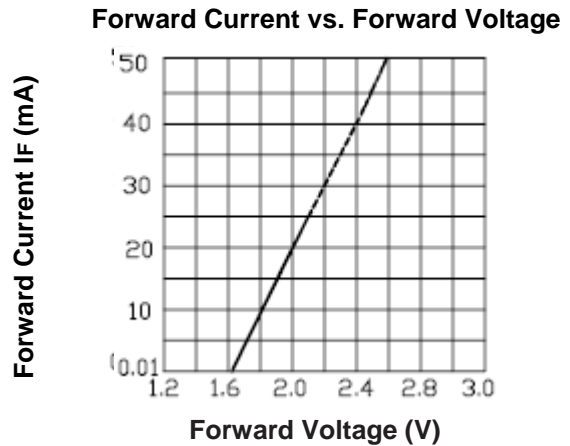
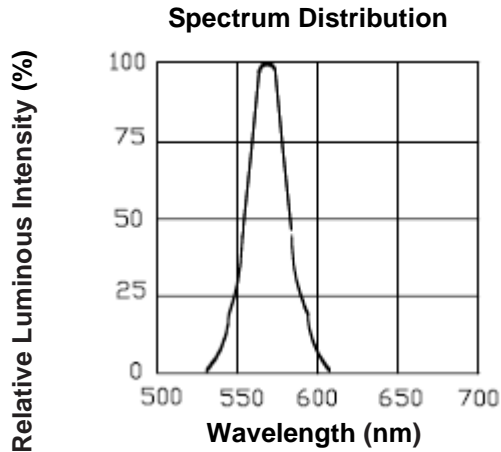
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Emitted Color	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	Super Red	25	50	-----	mcd	IF =20mA
		Yellowish Green	16	32	-----		
Viewing Angle	2θ1/2	-----	-----	100	-----	deg	
Peak Wavelength	λp	Super Red	-----	632	-----	nm	
		Yellowish Green	-----	575	-----		
Dominant Wavelength	λd	Super Red	-----	624	-----	nm	
		Yellowish Green	-----	573	-----		
Spectrum Radiation Bandwidth	Δλ	Super Red	-----	20	-----	nm	
		Yellowish Green	-----	20	-----		
Forward Voltage	VF	Super Red	-----	2.0	2.4	V	
		Yellowish Green	-----	2.0	2.4		
Reverse Current	IR	Super Red	-----	-----	10	μA	VR=5V
		Yellowish Green	-----	-----	10		

Typical Electro-Optical Characteristics Curves (T_a=25°C) Super Red



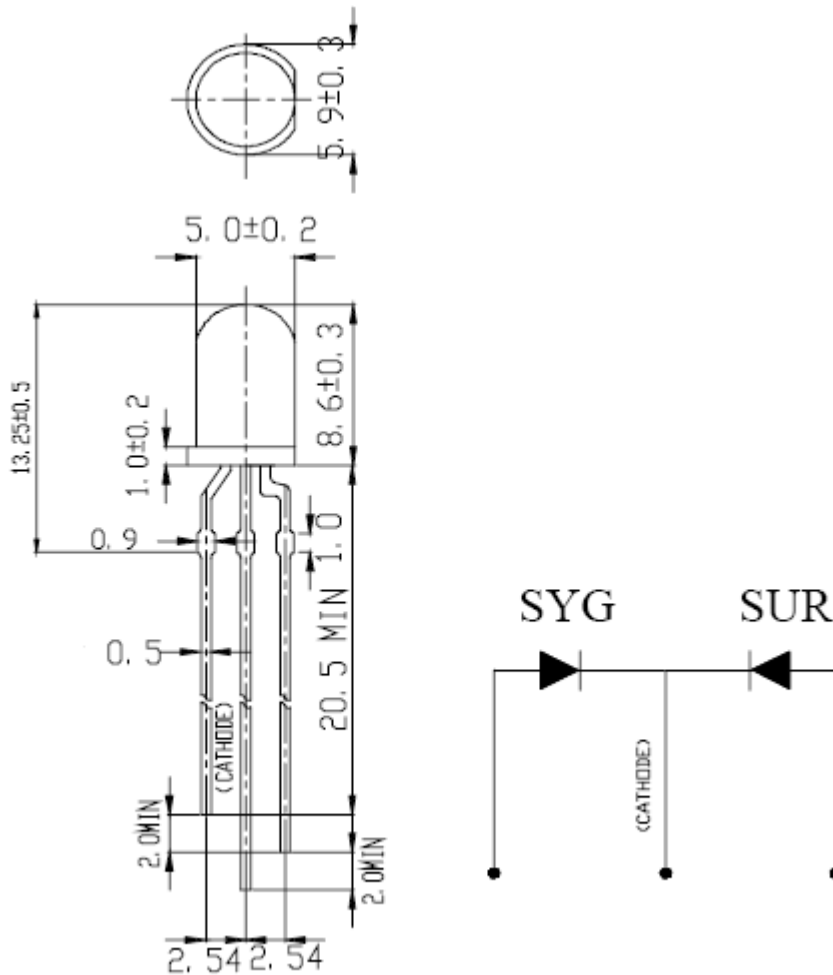
Typical Electro-Optical Characteristics Curves (T_a=25°C) Yellowish Green



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TBH-QF2CR5-3391A3

Package Dimensions (In mm)



Note:

1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm down the lead.

Packing Quantity Specification

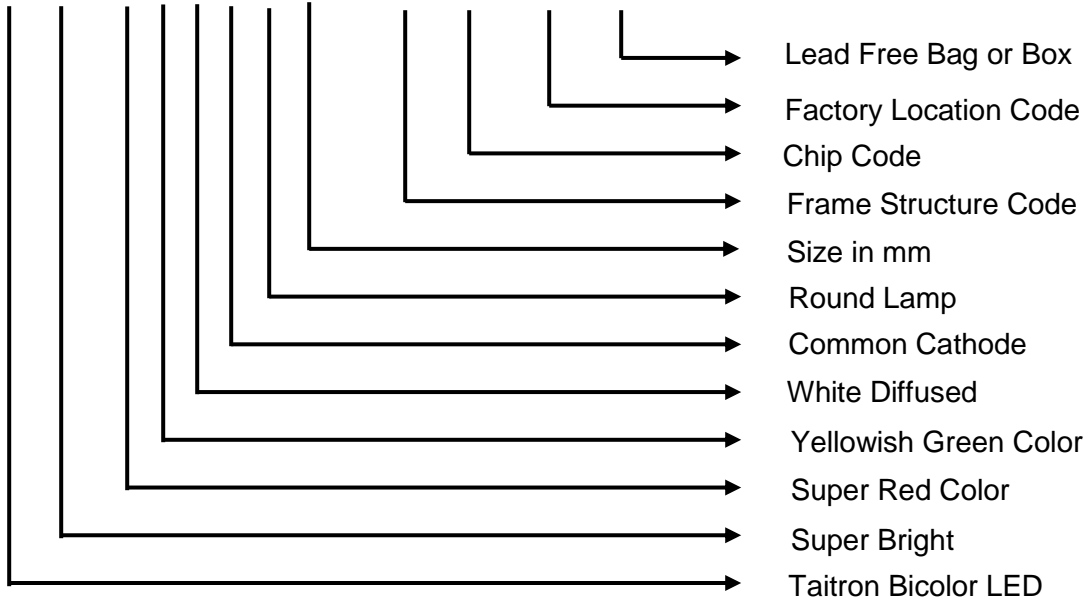
Packing Type	PCS per Bulk	PCS Per Inner Box	PCS Per Carton
Bulk	500	2,000	20,000

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Ordering Information

TBH - QF2 CR5 - 3391 A3 - 92 - BL

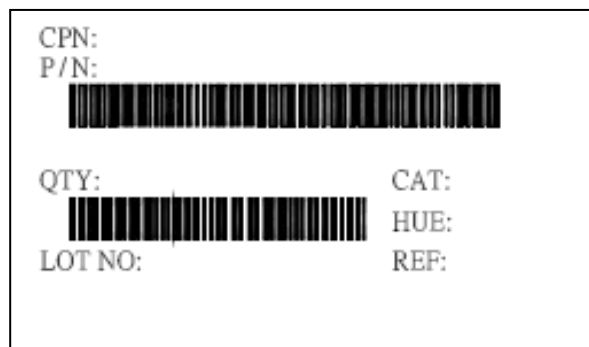


Label Explanation

CAT: Ranks

HUE: Peak Wavelength Rank

REF: Reference



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