

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 water clear.

Applications

- TV set
- Monitor
- Telephone
- Computer

Device Selection Guide

Part No.	Chip			Lens Color
	Color Code	Material	Emitted Color	
TBH-QF2AR5-3391A3	Q	AllnGaP	Super Red	White Diffused
	F	AllnGaP	Yellowish Green	

Absolute Maximum Ratings (Ta=25°C)

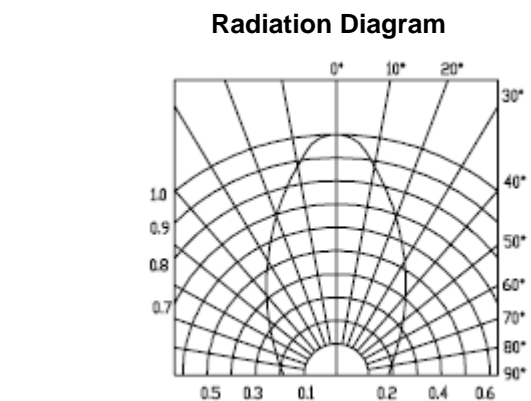
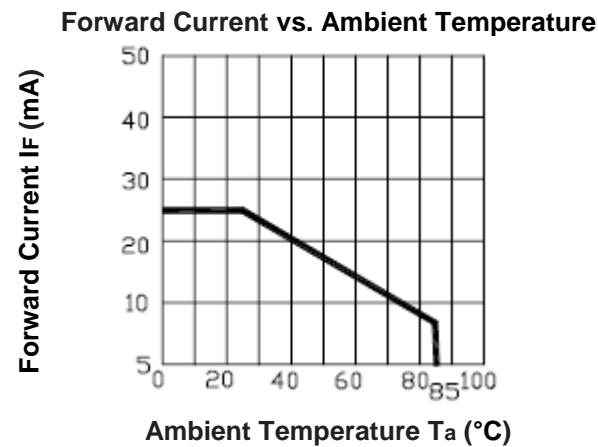
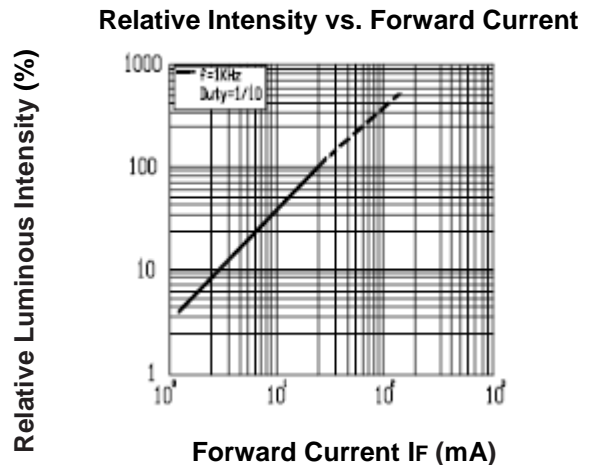
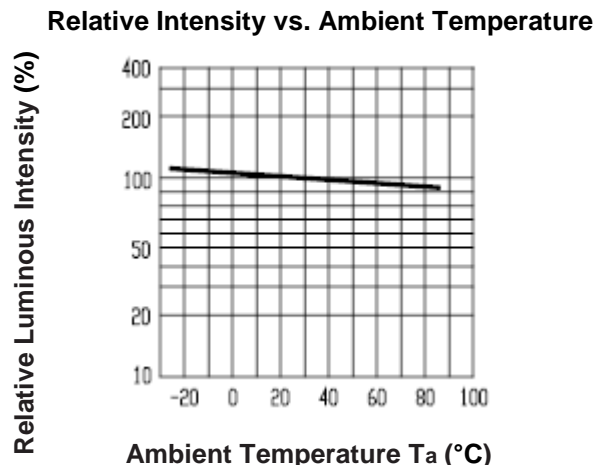
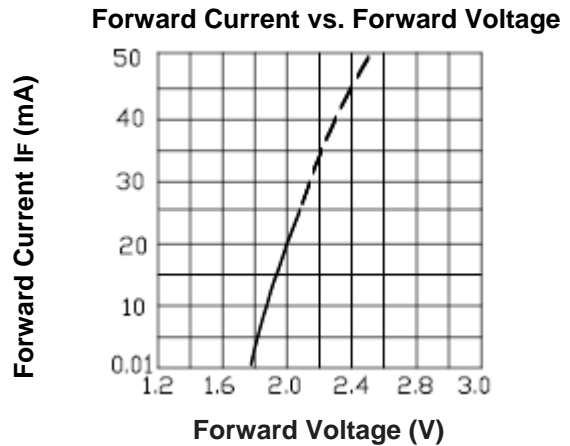
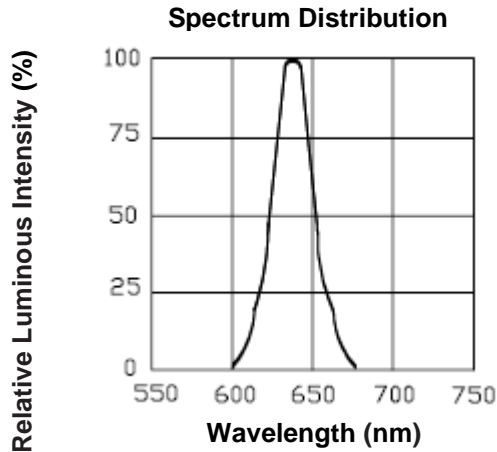
Parameter	Symbol	Value	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	Super Red: 25	mA
		Yellowish Green: 25	
Power Dissipation	Pd	Super Red: 60	mW
		Yellowish Green: 60	
Electrostatic Discharge	ESD	2000	V
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature (Note.1)	Tsol	260 ±5	°C

Note 1: Soldering time ≤ 5 seconds

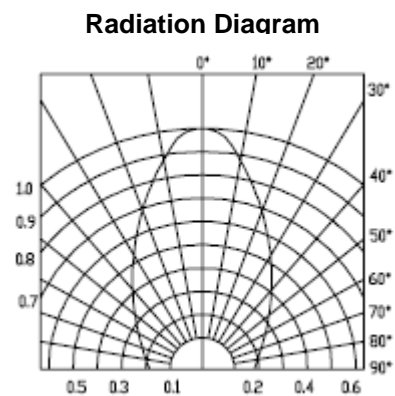
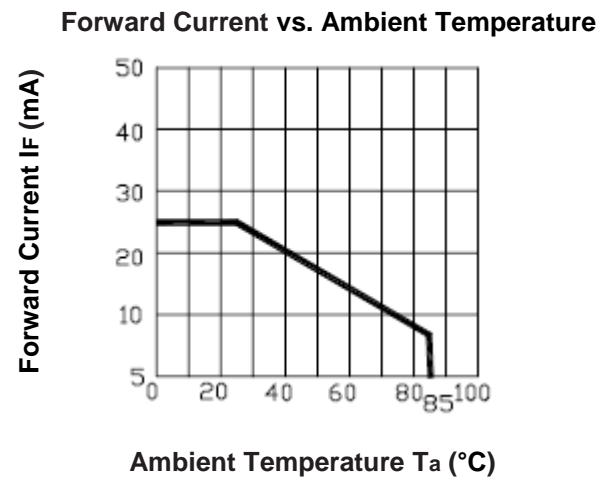
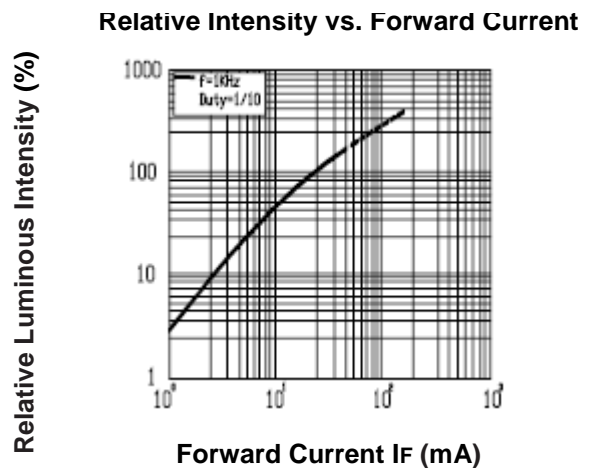
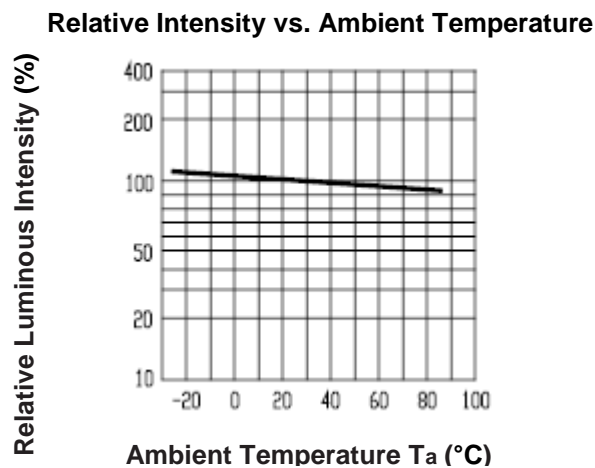
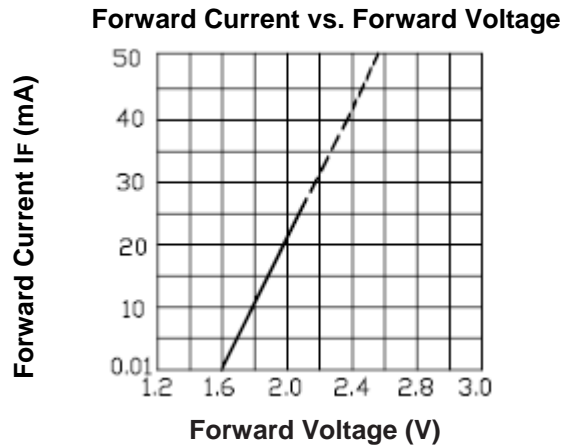
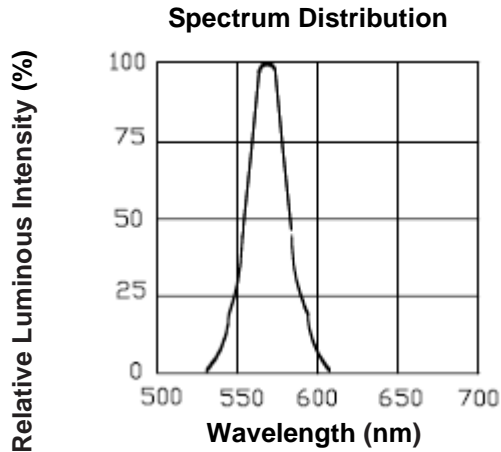
Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Emitted Color	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	Super Red	6.3	12.5	-----	mcd	IF =20mA
		Yellowish Green	4.0	8.0	-----		
Viewing Angle	2θ1/2	-----	-----	65	-----	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		

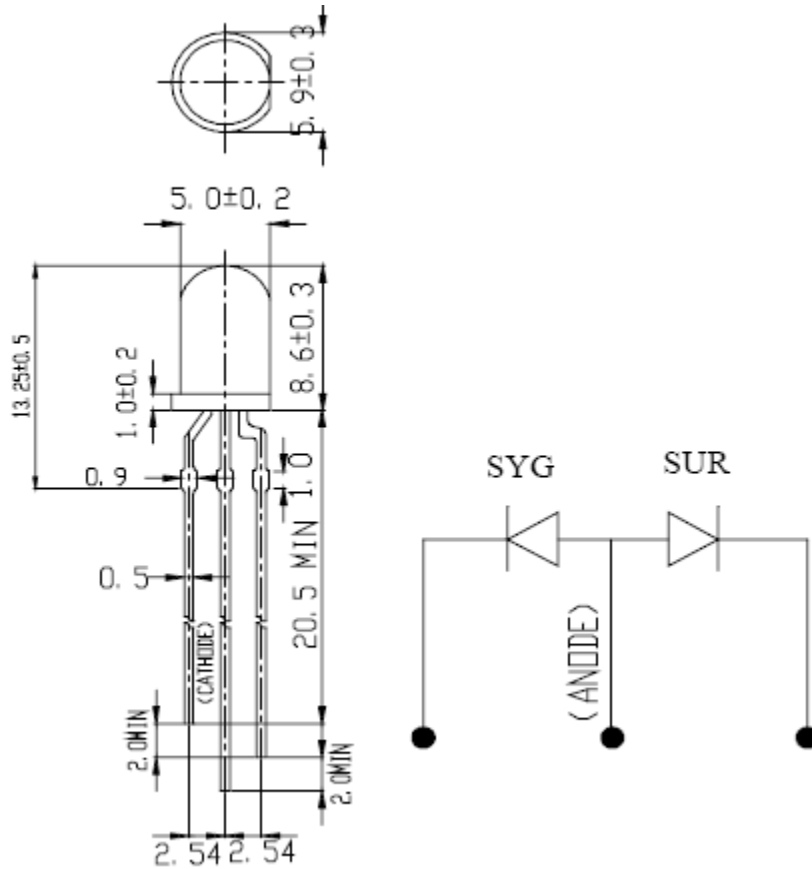
Typical Electro-Optical Characteristics Curves (T_a=25°C) Super Red



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



Package Dimensions (In mm)



Note:

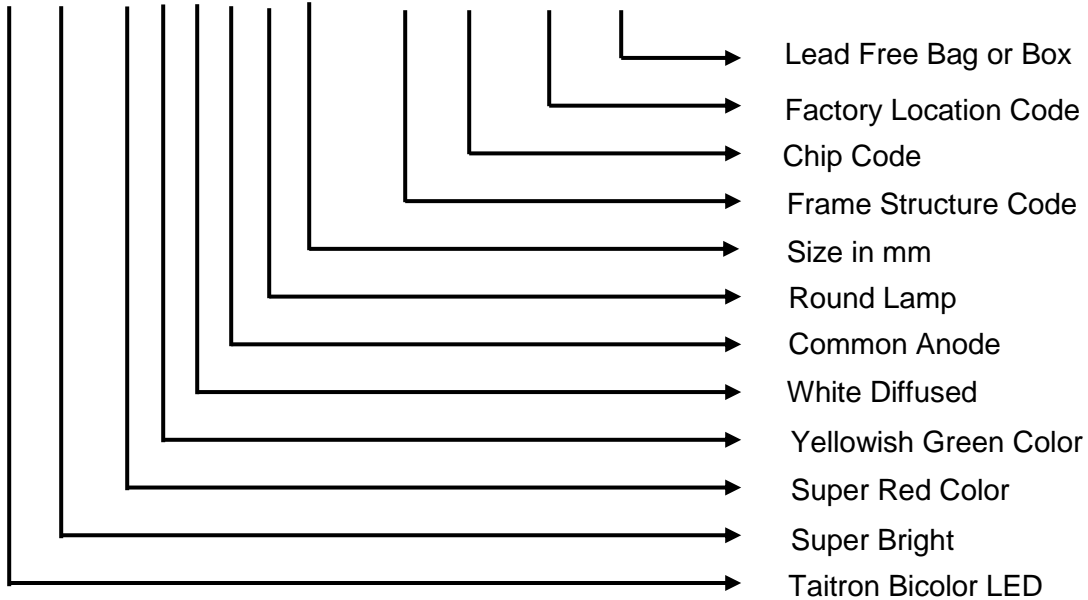
1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm down the lead.

Packing Quantity Specification

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

Ordering Information

TBH - QF2AR5 - 3391 A3 - 92 - BL

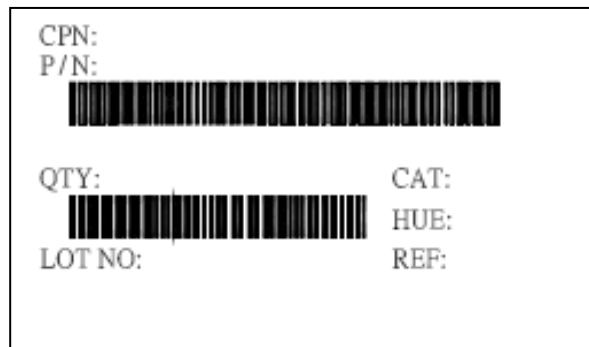


Label Explanation

CAT: Ranks

HUE: Peak Wavelength Rank

REF: Reference



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