



5.0mm Round Type LED Lamps

Model No.: **5R94EBC-8BA**

ECN: _____

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Features :

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

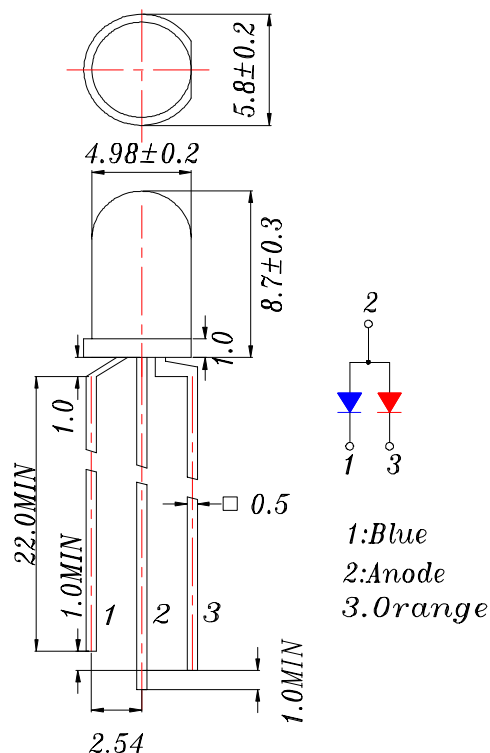
Descriptions :

- The series is specially designed for applications requiring higher brightness.
- The led lamps are available with different colors, intensities epoxy colors,etc.

Applications :

- TV set
- Monitor
- Telephone
- Computer

Package Dimensions:



Notes: 1. All dimensions are in millimetres

2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

3. Tolerances unless Dimension ± 0.25 mm.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
5R94EBC-8BA	GaAsP/GaP	Orange	Water Clear
	InGaN/SiC	Super Blue	

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Prepared by: David

Prepared date: 14/12/16

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中山市晶明光电科技有限公司

ZHONSHAN SILSMART OPTOELECTRONICS CO., LTD.

Device Number: JMDL-5R8-351

REV: 1.0

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Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit	
Forward Current	IF	E-M01	25	mA
		B-209	25	
Power Dissipation	Pd	E-M01	100	mW
		B-209	120	
Peak Forward Current	IF(Peak)	E-M01	160	mA
		B-209	100	
Operating Temperature	Topr	-40 to +85	°C	
Storage Temperature	Tstg	-40 to +100	°C	
Soldering Temperature	Tsol	260 ± 5	°C	
Reverse Voltage	VR	5	V	

Note: *1:IFP Conditions --Pulse Width ≤ 1msec and Duty ≤ 1/10.

*2:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	E-M01	1500	2000	/	mcd IF= 20 mA
		B-209	1400	1800	/	
Peak Wavelength	λ p	E-M01	/	630	/	nm IF= 20 mA
		B-209	/	460	/	
Dominant Wavelength	λ d	E-M01	/	622	/	nm IF= 20 mA
		B-209	/	466	/	
Spectrum Radiation Bandwidth	Δ λ	E-M01	/	15	/	nm IF= 20 mA
		B-209	/	27	/	
Forward Voltage	VF	E-M01	/	2.0	2.5	V IF= 20 mA
		B-209	/	3.1	3.5	
Viewing Angle	2 θ 1/2	/	50	/	deg	IF= 20 mA
Reverse Current	IR	/	/	10	μ A	VR= 5 V

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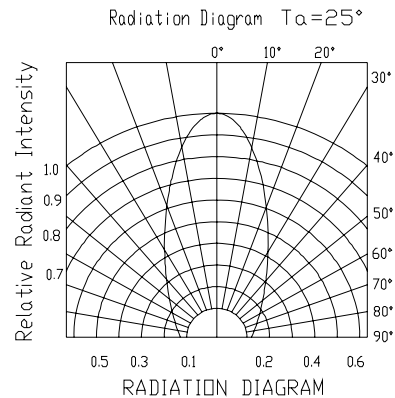
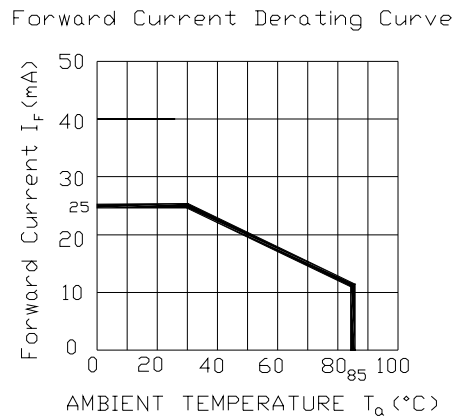
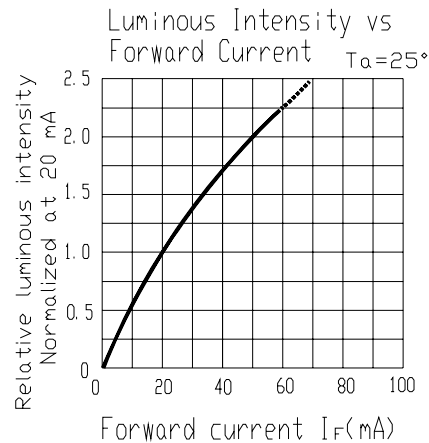
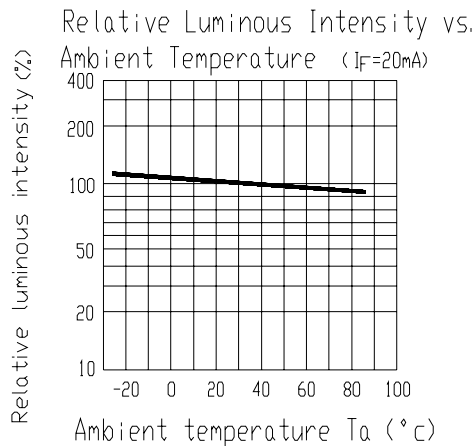
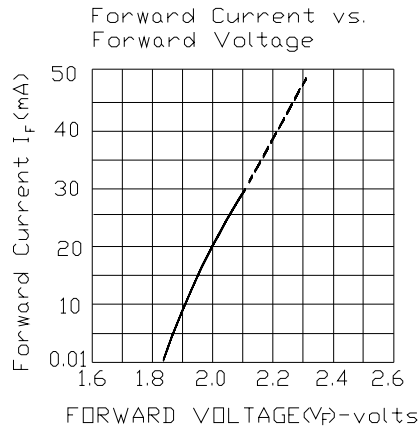
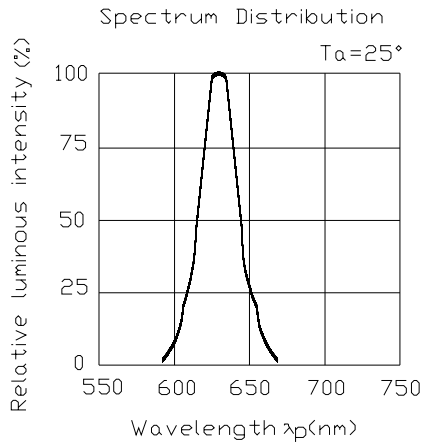
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■ Typical Electro-Optical Characteristic Curves:

E-E01



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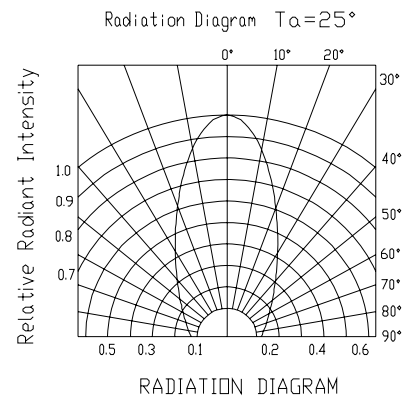
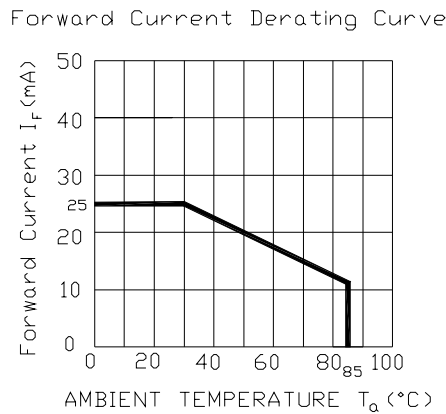
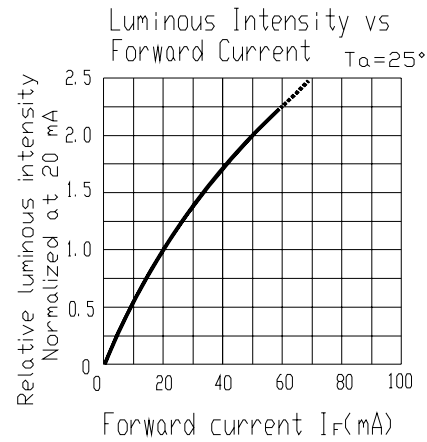
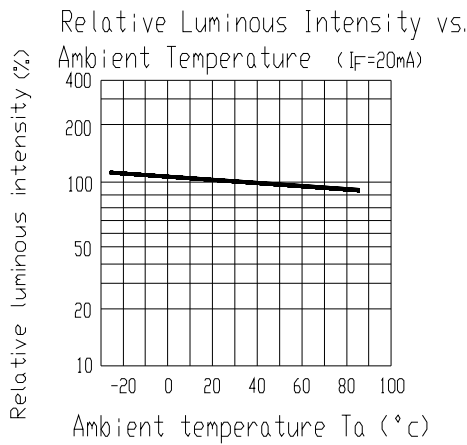
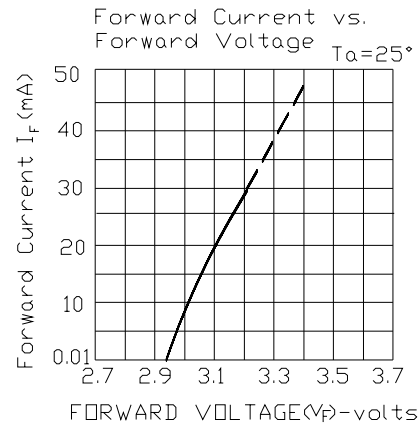
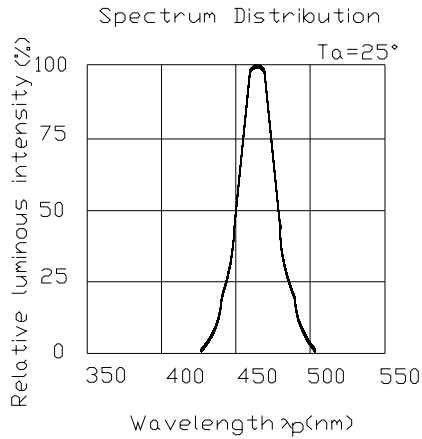
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■ Typical Electro-Optical Characteristic Curves:

Y-E01



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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +85°C 5min ∫ 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature/ High Humidity	85°C / 85% RH	1000 HRS	76 PCS	0/1

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