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HIGH VOLTAGE LED LAMPS

Lead-Free Parts

L8HRF55943/HV12-PF

DATA SHEET

DOC. NO : QW0905-L8HRF55943/HV12-PF

REV : A

DATE : 12 -Nov. - 2014

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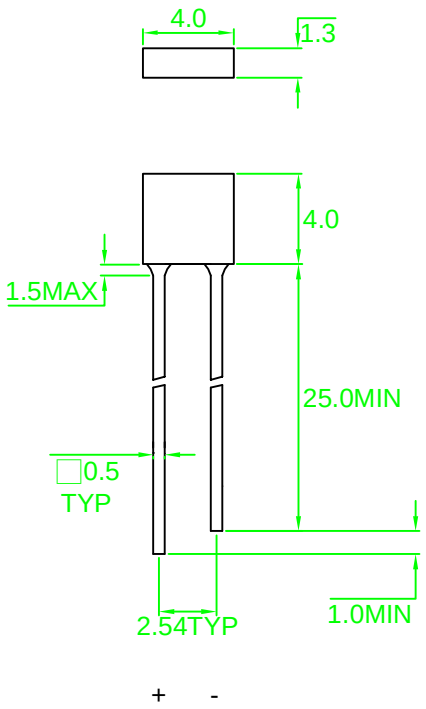
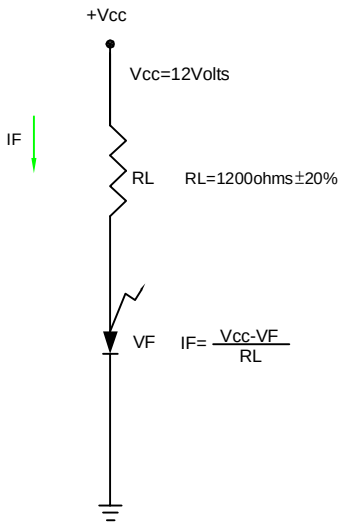
PART NO. L8HRF55943/HV12-PF

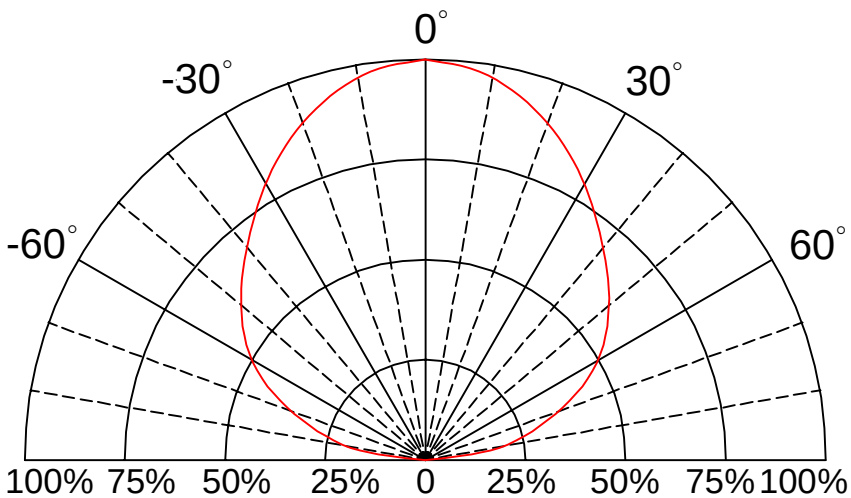
Package Dimensions





Note : 1.All dimension are in millimeter tolerance is ±0.25mm unless otherwise noted.
2.Specifications are subject to change without notice.

Directivity Radiation



Absolute Maximum Ratings at Ta=25 ℃

Parameter	Symbol	Ratings	UNIT
		8HRF	
Forward voltage	V_F	12	V
Reverse voltage	Vr	15	V
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +100	℃

Typical Electrical & Optical Characteristics (Ta=25 ℃)

PART NO	MATERIAL	COLOR		Domi-nant wave length λ Dnm	Spectral halfwidth △λ nm	Forward current (mA) @ 12V		Luminous intensity (mcd) @12V		Reverse current (uA) VR= 15V	Viewing angle 2θ 1/2 (deg)
		Emitted	Lens			Min.	Max.	Min.	Typ.	Max.	
L8HRF55943/HV12-PF	AlGaInP	Red	Water Clear	630	20	6.0	12	160	350	100	120

Note : 1.The forward voltage data did not including ±0.1V testing tolerance.
2. The luminous intensity data did not including ±15% testing tolerance.

Typical Electro-Optical Characteristics Curve

8HRF CHIP

Fig.1 Forward current vs. Forward Voltage

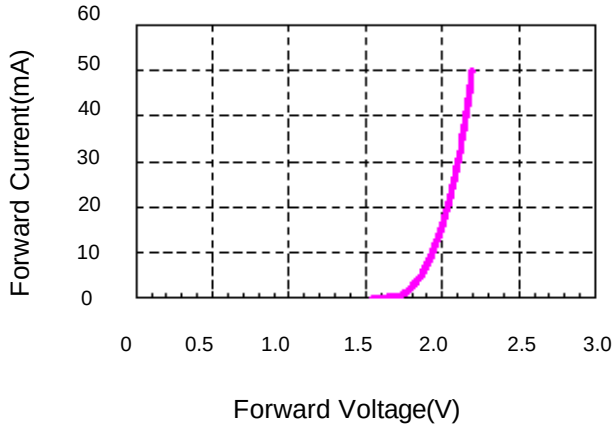


Fig.2 Relative Intensity vs. Forward Current

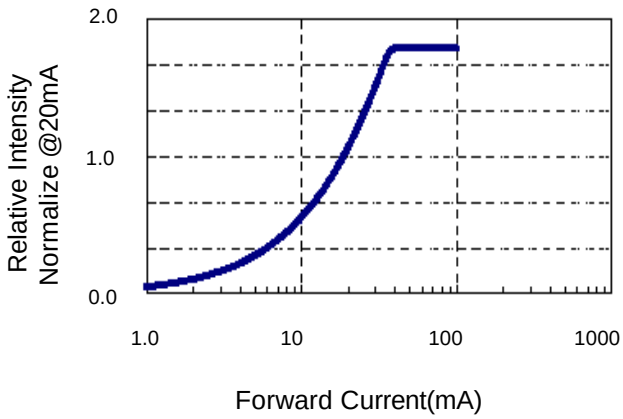


Fig.3 Forward Voltage vs. Temperature

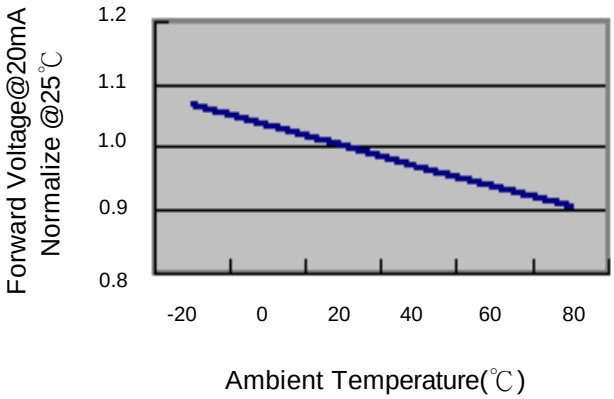


Fig.4 Relative Intensity vs. Temperature

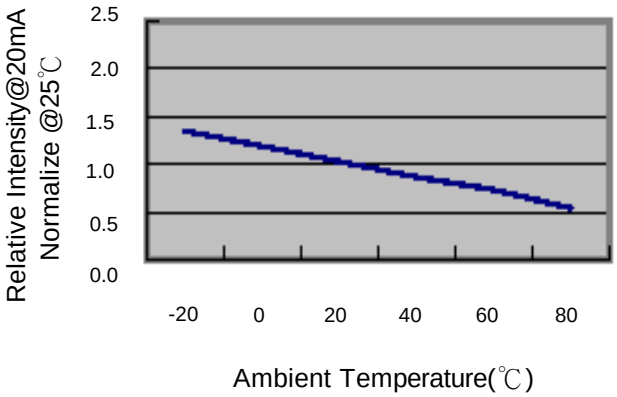
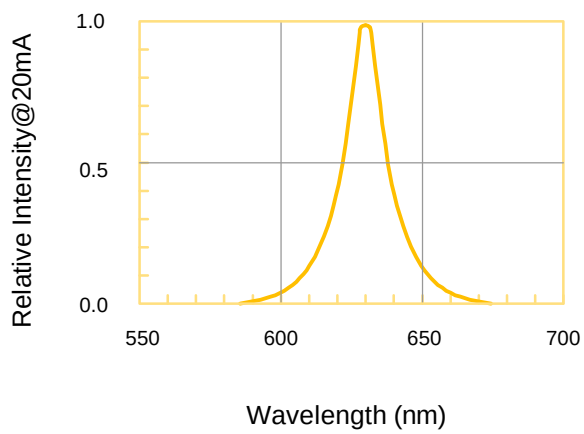


Fig.5 Relative Intensity vs. Wavelength



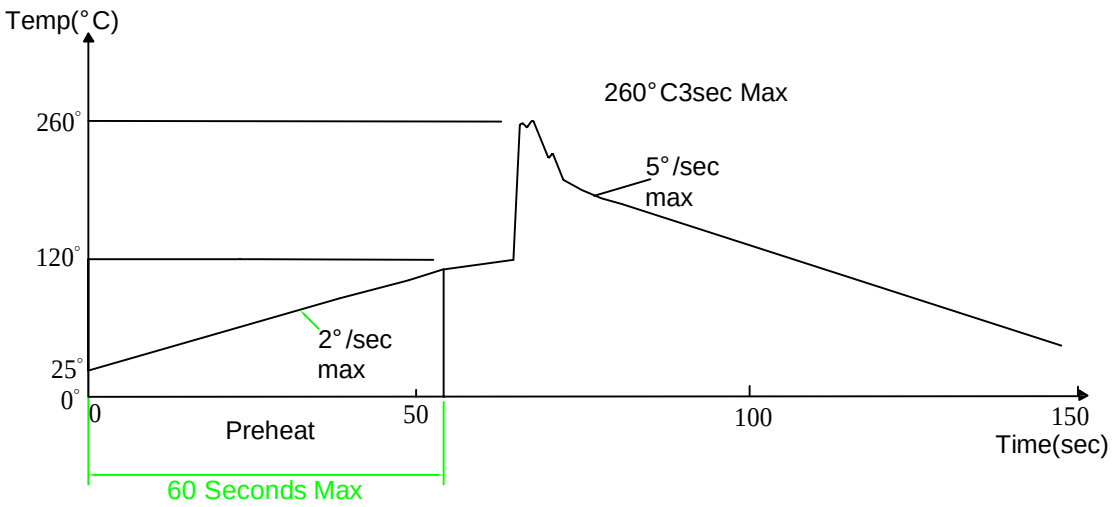
Soldering Condition(Pb-Free)

1.Iron:

Soldering Iron:30W Max
Temperature 350°C Max
Soldering Time:3 Seconds Max(One time only)
Distance:2mm Min(From solder joint to body)

2.Wave Soldering Profile

Dip Soldering
Preheat: 120°C Max
Preheat time: 60seconds Max
Ramp-up
2°C/sec(max)
Ramp-Down:-5°C/sec(max)
Solder Bath:260°C Max
Dipping Time:3 seconds Max
Distance:2mm Min(From solder joint to body)



Note: 1.Wave solder should not be made more than one time.
2.You can just only select one of the soldering conditions as above.