

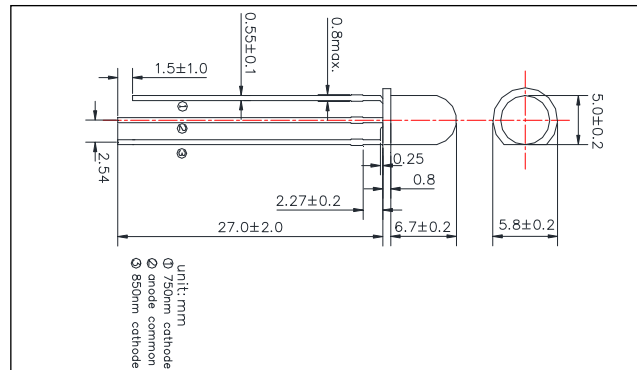
L750/850-04A

Bi-color LED Lamp

<Specifications>

- Chip Material: AlGaAs
- Chip Dimension: 400um x 400um
- Number of Chips: 2pcs
- Peak Wavelength: 750nm / 850nm typ.
- Package Type: Φ5mm Clear Molding
- Lead Frame: Soldered(Lead Free)
- Lens: Epoxy Resin

Outer Dimension (Unit:mm)

**Absolute Maximum Ratings [Tc=25°C]**

Item	Symbol	Maximum Rated Value		Unit
		750nm	850nm	
Power Dissipation	PD	200	180	mW
Forward Current	IF	100		mA
Pulse Forward Current	VR	500		V
Reverse Voltage	VR	5		V
Thermal Resistance	Rthja	230		K/W
Junction Temperature	Tj	120		°C
Operating Temperature	TOPR	-40 ~ +100		°C
Storage Temperature	TSTG	-40 ~ +100		°C
Soldering Temperature	TSOL	265		°C

‡Pulse Forward Current condition: Duty 1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed with 3 seconds at 265°C.

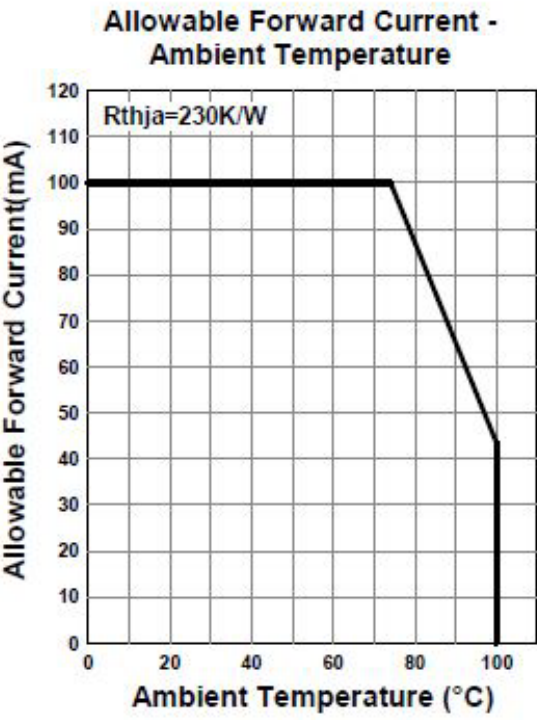
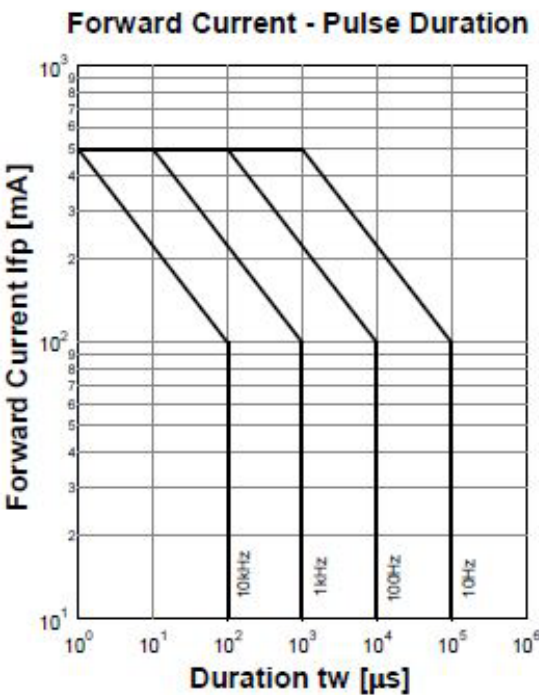
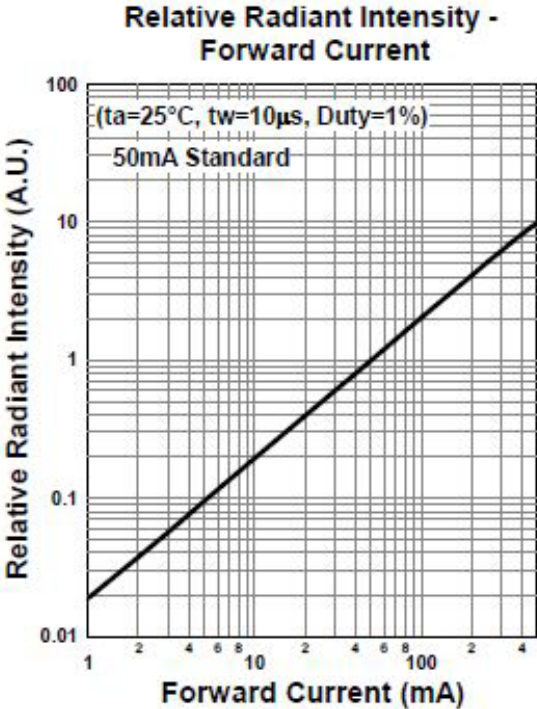
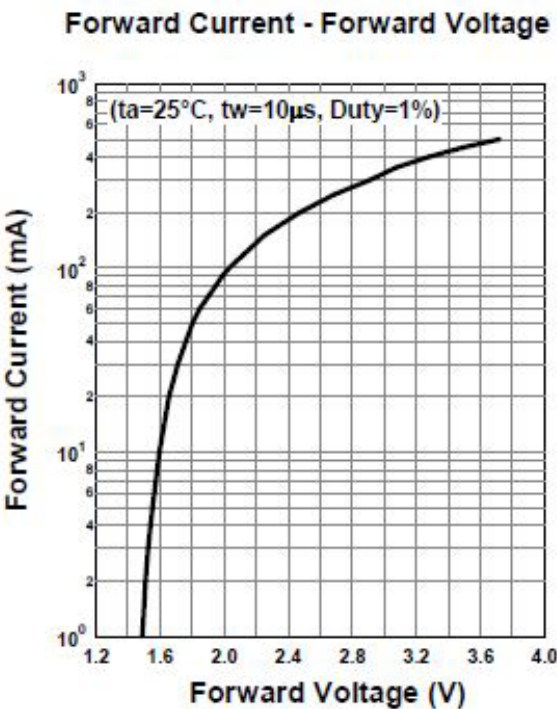
Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition		Minimum		Typical		Maximum		Unit
		750	850	750	850	750	850	750	850	
Forward Voltage	VF	IF=50mA				1.8	1.6	2.0	1.8	V
	VFP	IFP=500mA				3.7	2.6			
Total Radiated Power*	PO	IF=50mA				24	24			mW
		IFP=500mA				230	230			
Peak wavelength	λP	IF=50mA		740	840			760	860	nm
Half Width	Δλ	IF=50mA				25	32			nm
Rise Time	tr	IF=50mA				10	10			ns
Fall Time	tf	IF=50mA				20	20			ns

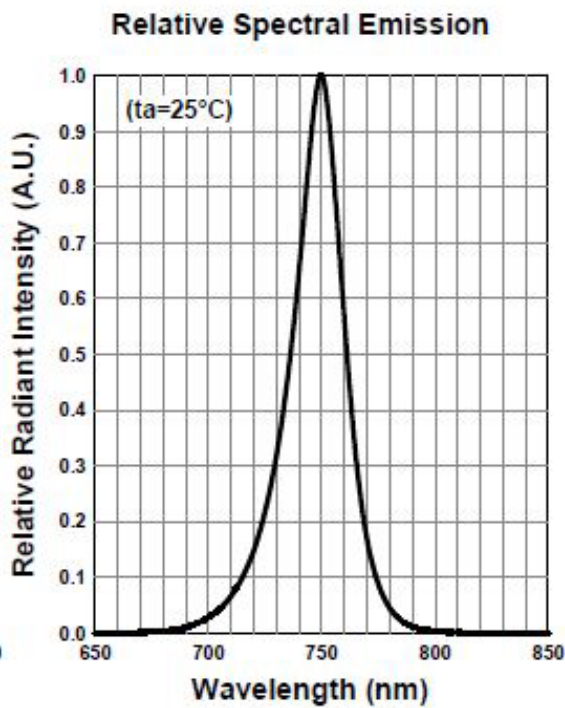
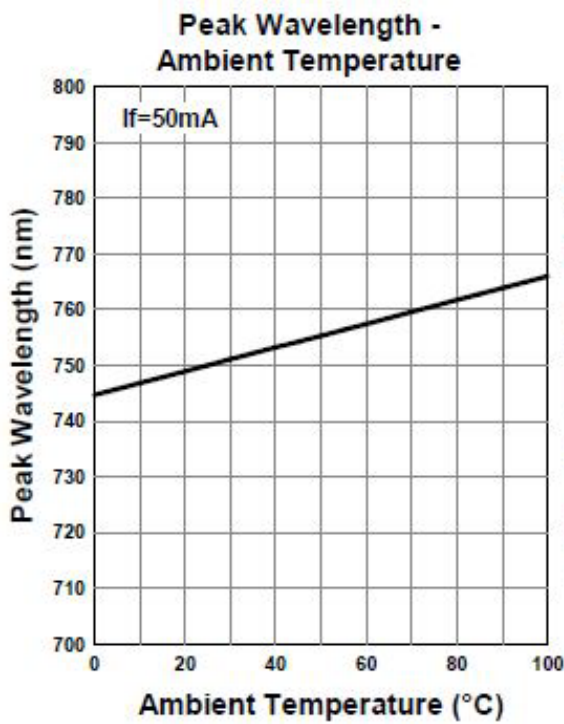
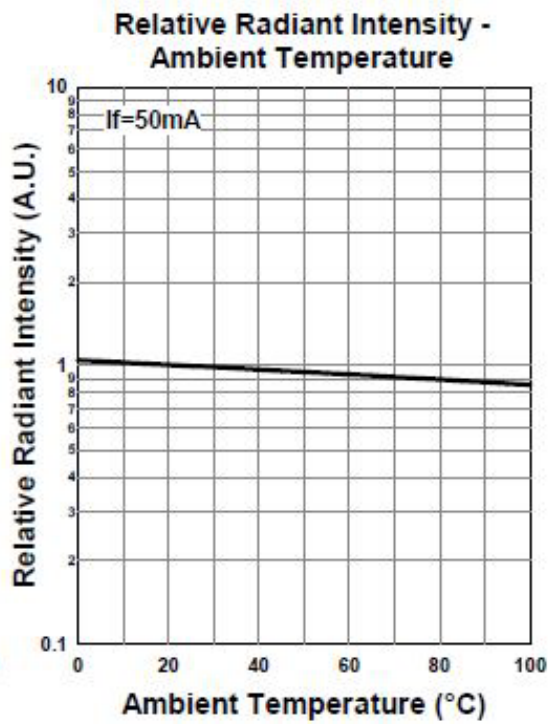
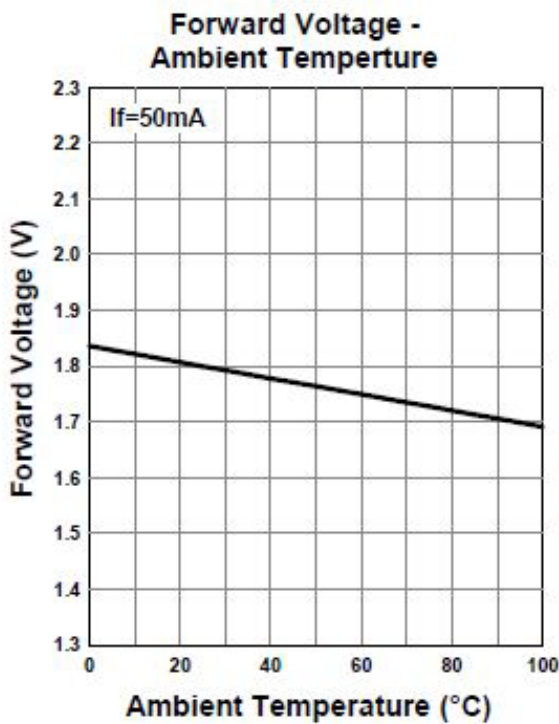
‡Radiated Power is measured by S3584-08.



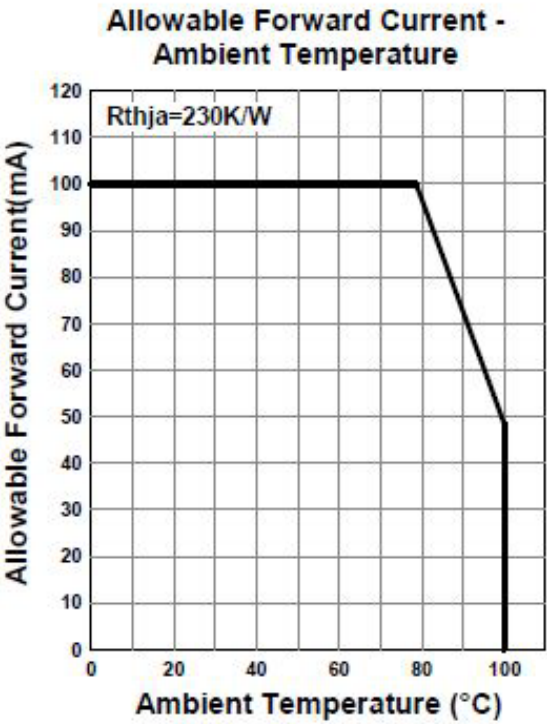
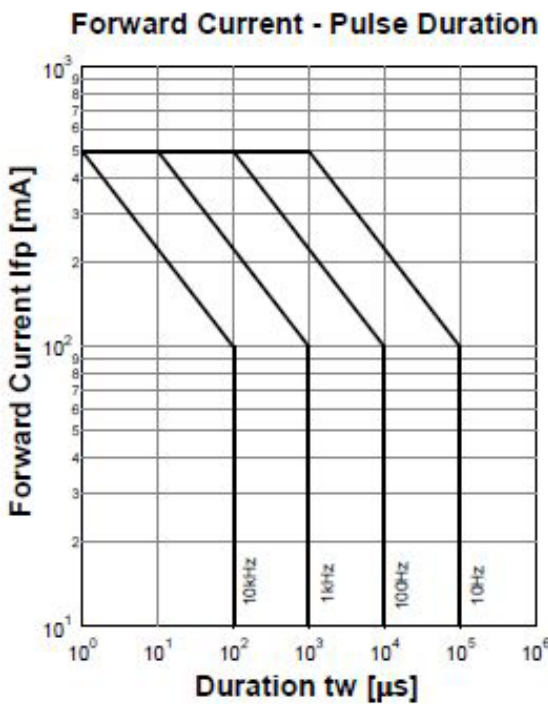
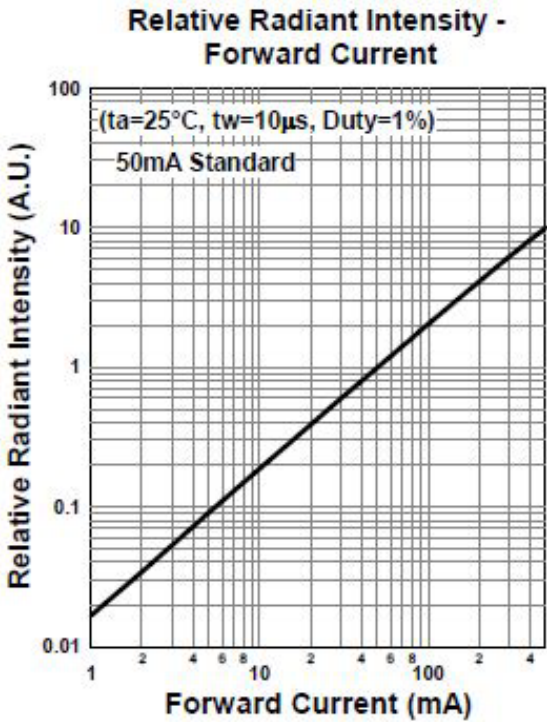
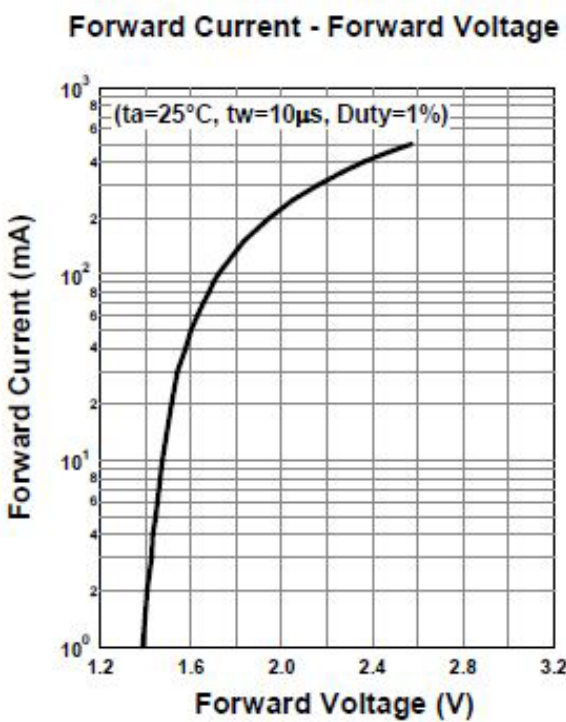
Typical Characteristic Curves
750nm



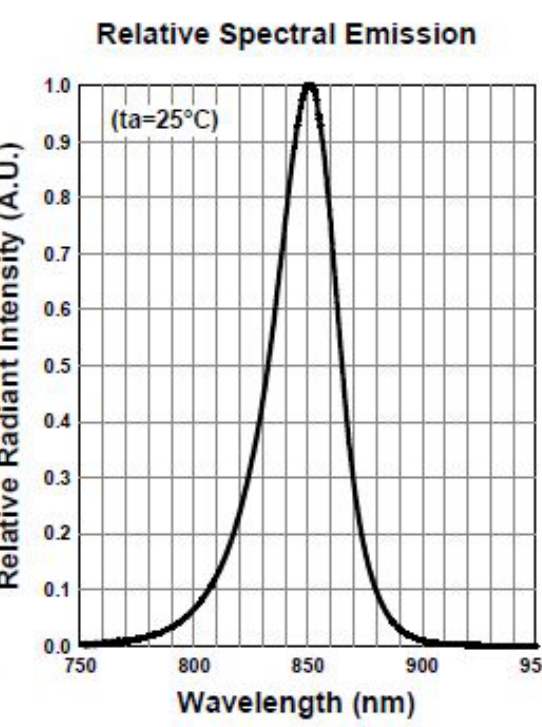
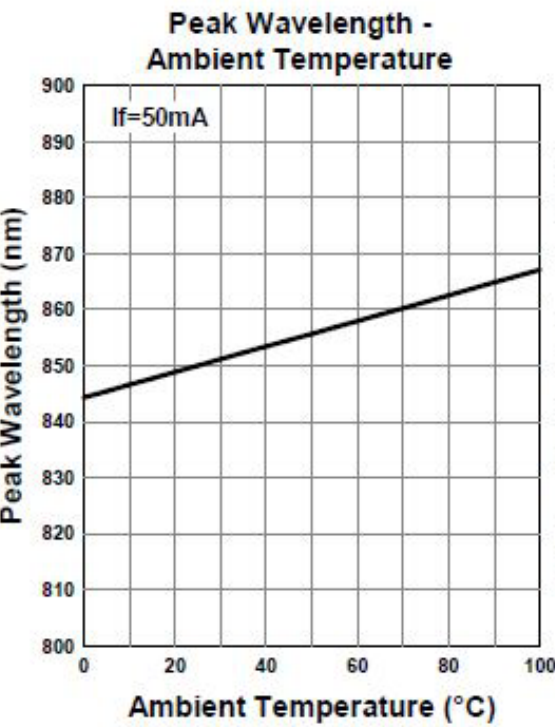
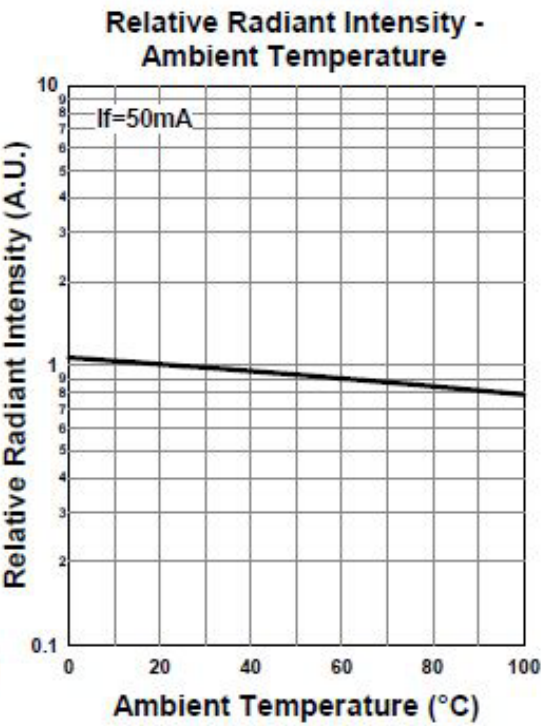
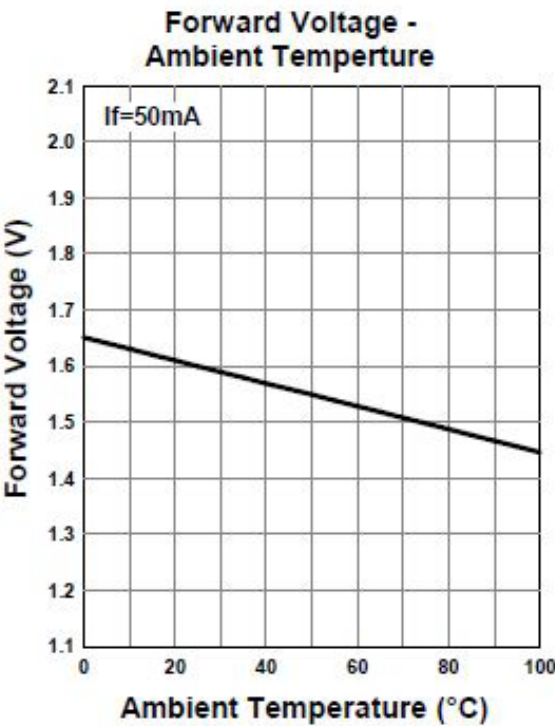
750nm



Typical Characteristic Curves
850nm



850nm



Disclaimer

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Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements.

Product data and parameters may vary by user application and over time.

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