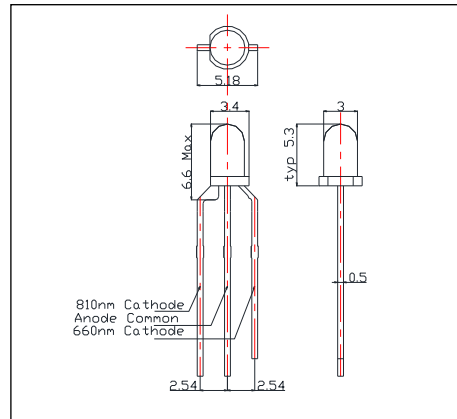


L660N/810-33
Bi-Color TOP LED

<Specifications>

1. Product Name: Bi-Color TOP LED
2. Type Number: L660N/810-33
3. Chip:
 - Chip Material: AlGaInP/AlGaAs
 - Dimension: 350umx350um / 400umx400um
 - Number of Chips: 2pcs
 - Peak Wavelength: 660,810nm
4. Package
 - Lead Frame: Soldered (Lead Free)
 - Package Type: Φ3mm Clear Molding
 - Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]				
Item	Symbol	Maximum Rated Value		Unit
		660	810	
Power Dissipation	PD	120	200	mW
Forward Current	IF	50	100	mA
Pulse Forward Current*	IFP	300	500	mA
Reverse Voltage	VR	5		V
Thermal Resistance	Rthja	160	200	K/W
Junction Temperature	Tj	120		°C
Operating Temperature	TOPR	-40 ~ +100		°C
Storage Temperature	TSTG	-40 ~ +100		°C
Soldering Temperature**	TSOL	265		°C

* Duty 1% and Pulse Width = 10μs.

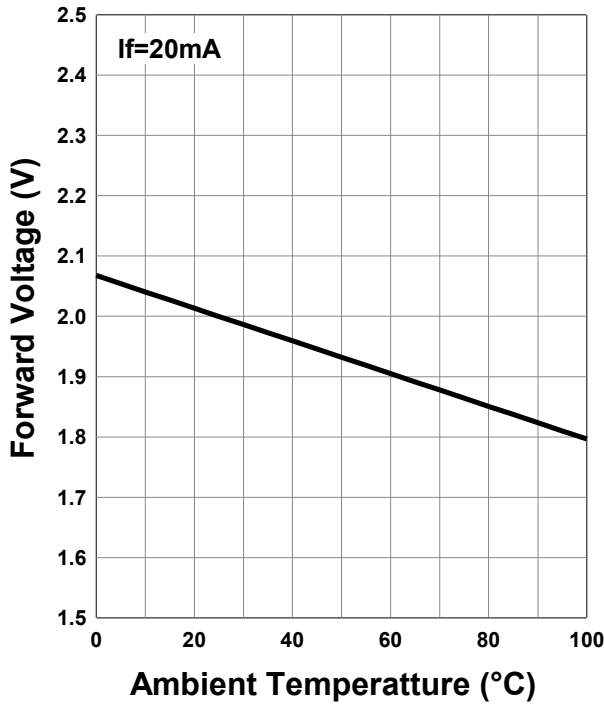
** Soldering condition must be completed within 3 second at 265°C.

Electro-Optical Characteristics [Ta=25°C]										
Item	Symbol	Condition		Min		Typ		Max		Unit
		660	810	660	810	660	810	660	810	
Forward Voltage	VF	IF=20mA				2.0	1.5	2.3	2.0	V
	VFP	IFP=300mA	IFP=500mA			3.6	2.8			V
Radiated Power*	PO	IF=20mA				15	8			mW/sr
		IFP=300mA	IFP=500mA			220	200			nm
Peak Wavelength	λP	IF=20mA		650	800			670	820	nm
Half Width	Δλ	IF=20mA				16	29			deg
Rise Time	tr	IF=20mA				20	55			ns
Fall Time	tf	IF=20mA				15	55			ns

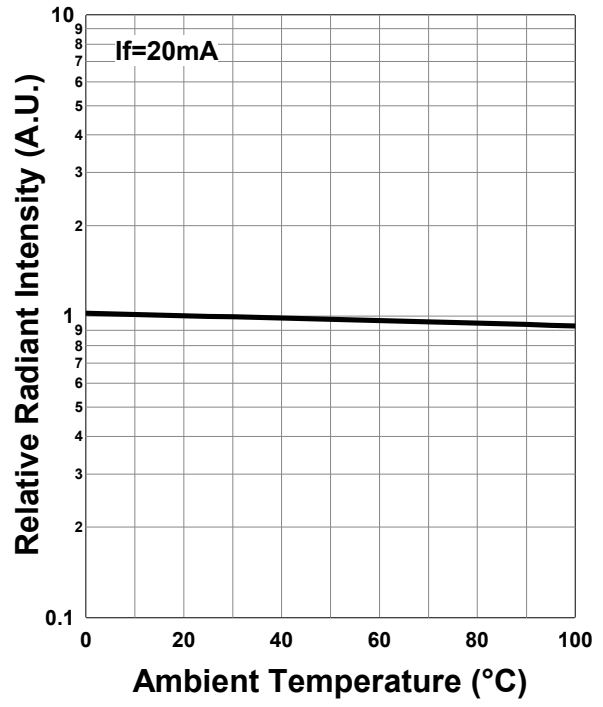
* Measured by S3584-08



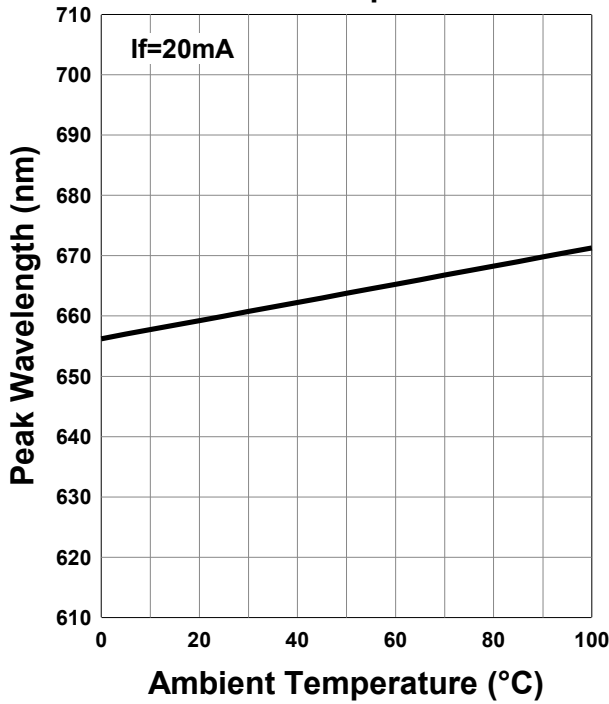
Forward Voltage - Ambient Temperature



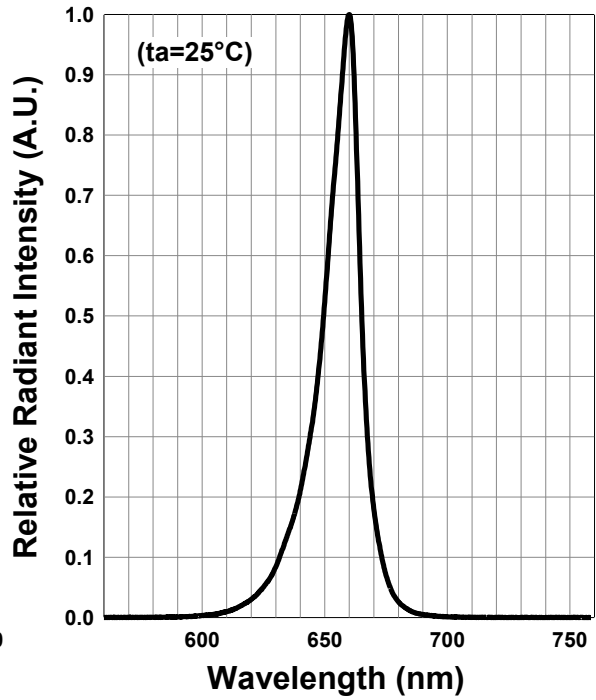
Relative Radiant Intensity - Ambient Temperature



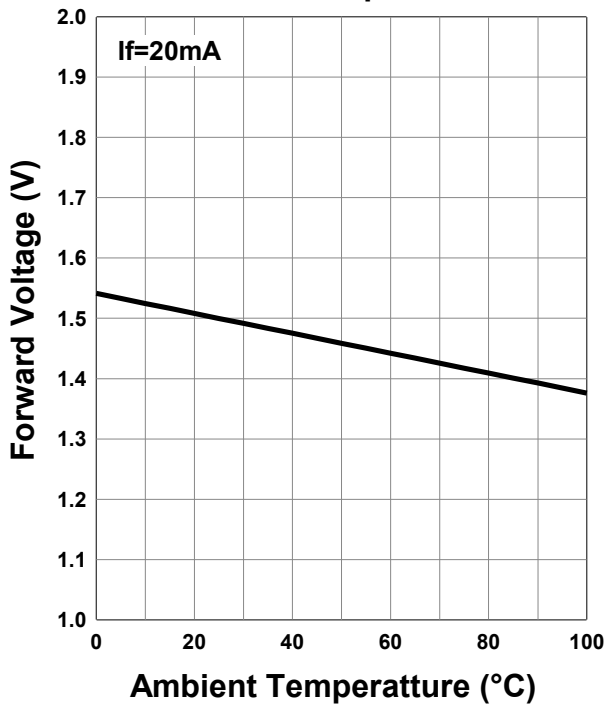
Peak Wavelength - Ambient Temperature



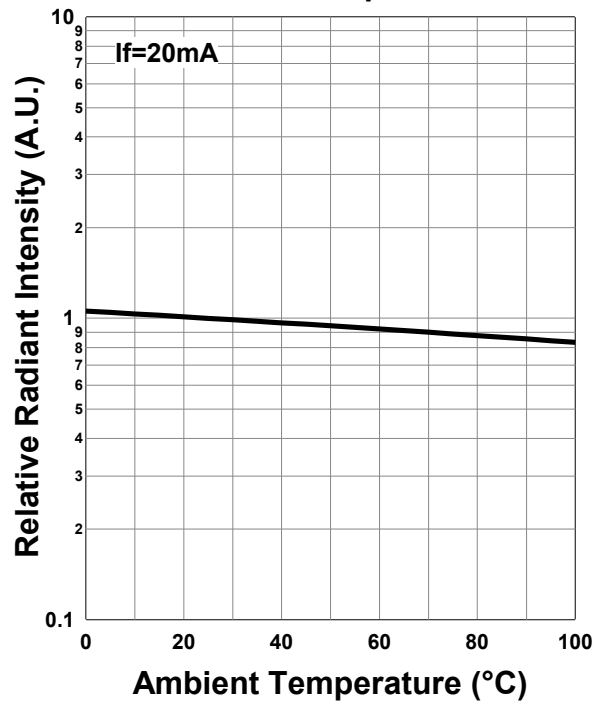
Relative Spectral Emission



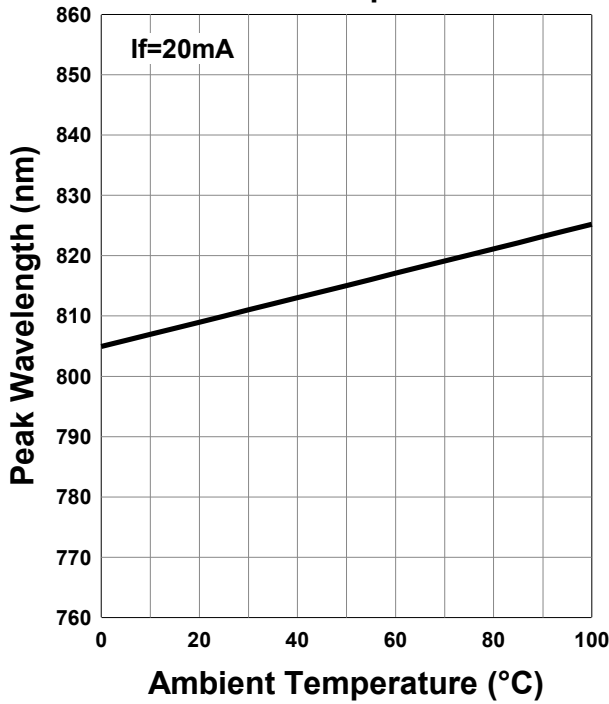
Forward Voltage - Ambient Temperature



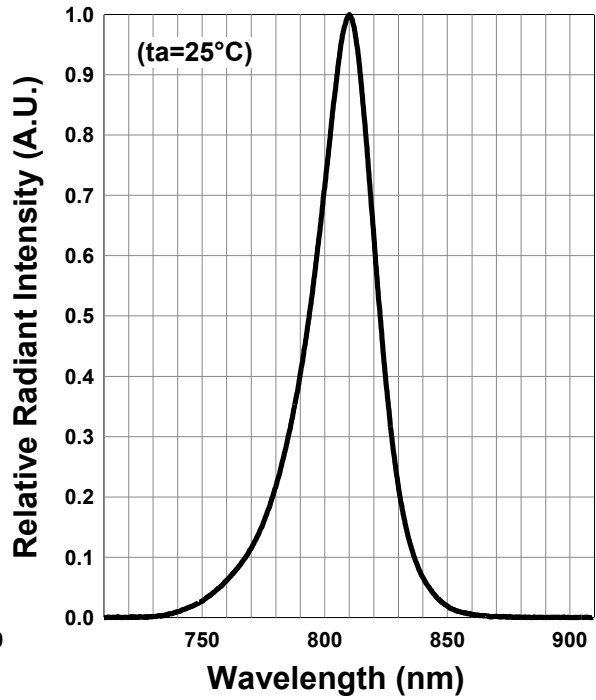
Relative Radiant Intensity - Ambient Temperature



Peak Wavelength - Ambient Temperature



Relative Spectral Emission



Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

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.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.

2016.04