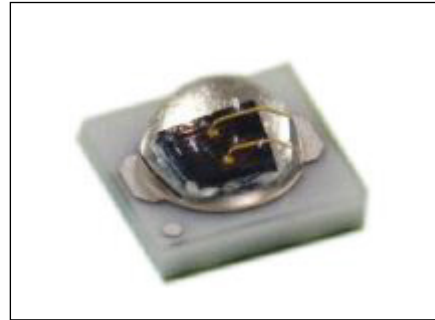


**EDC850D-1100(lens40deg)**  
High Power Top LED

PRELIMINARY

<Specifications>

- Chip Material: AlGaAs
- Chip Dimension: 1000um x 1000um
- Number of Chips: 1pcs
- Peak Wavelength: 850nm typ.
- Lead Frame Die: Ceramics
- Lens: Silicone Resin



Absolute Maximum Ratings[Tc=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	2500	mW
Forward Current	IF	1000	mA
Pulse Forward Current*	IFP	3000	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	10	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~+100	°C
Soldering Temperature**	TSOL	250	°C

\* Duty=1% and Pulse Width=10μs

\*\* Soldering condition must be completed within 5 seconds at 250°C

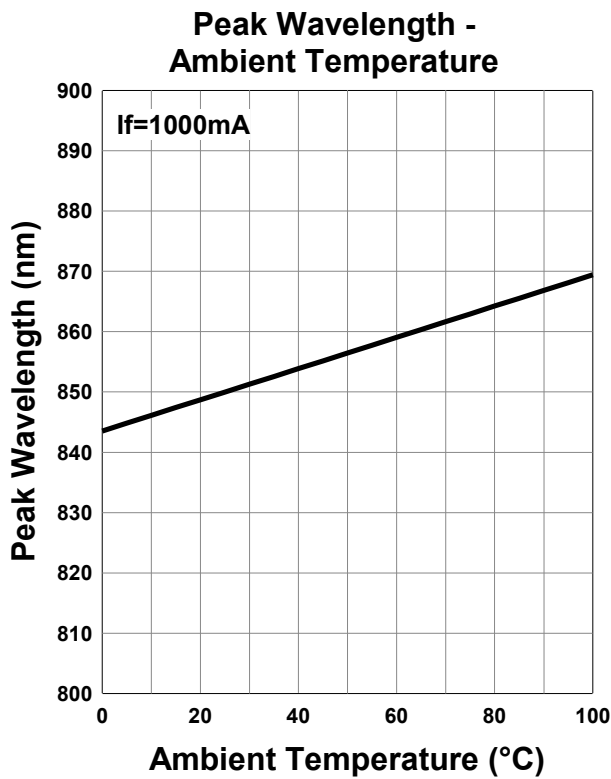
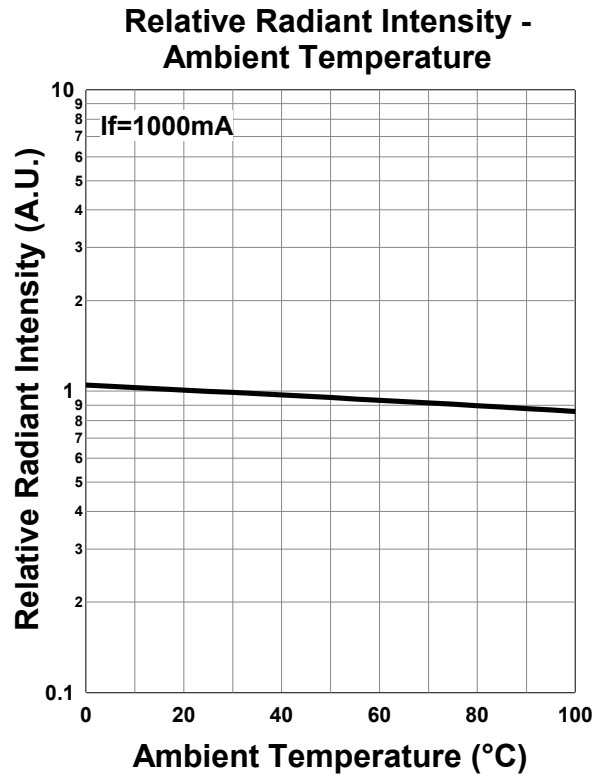
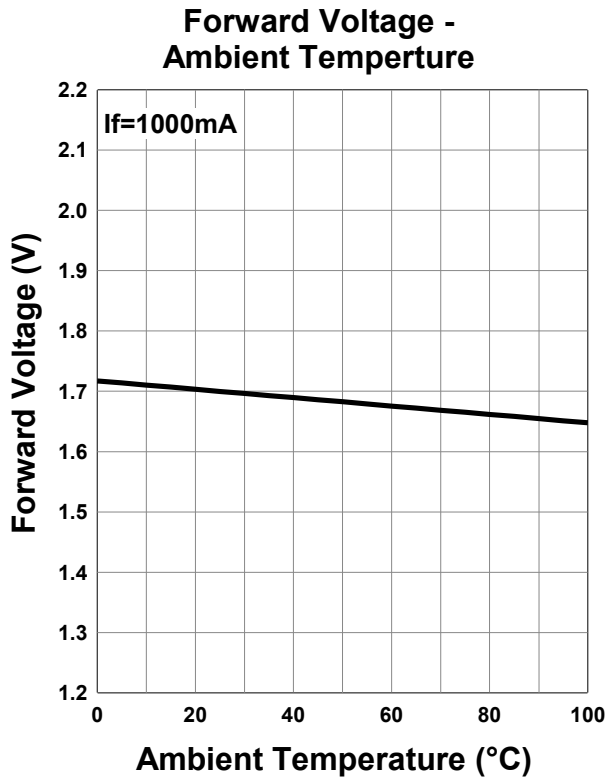
Electro-Optical Characteristics[Tc=25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=1A		1.7	2.5	V
	VFP	IPF=3A		2.3		
Total Radiated Power*	PO	IF=1A		750		mW
		IPF=3A		2100		
Radiant Intensity	IE	IF=1A		1900		
		IPF=3A		5300		
Peak Wavelength	λP	IF=1A	840		860	nm
Half Width	Δλ	IF=1A		37		nm
Viewing Half Angle	θ1/2	IF=100mA		±20		deg
Rise Time	tr	IF=1A		15		ns
Fall Time	tf	IF=1A		25		ns

\* Measured by S3584-08

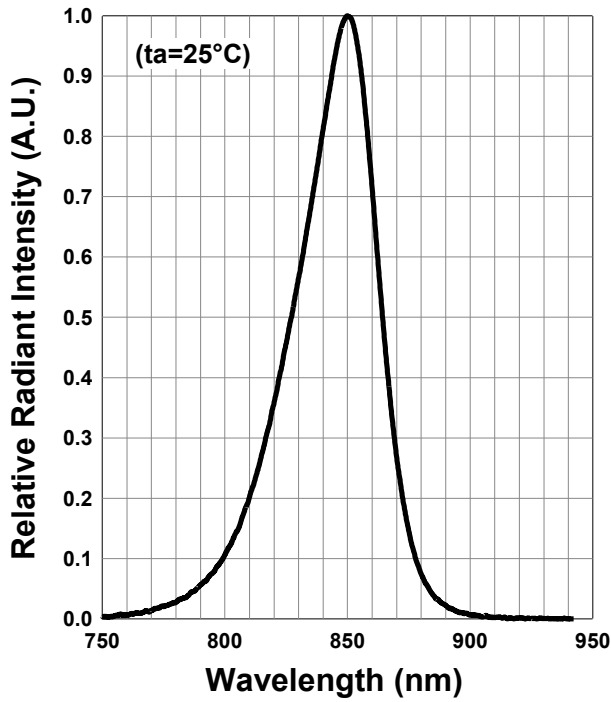
\*\* Measured by CIE217-2007 Condition B



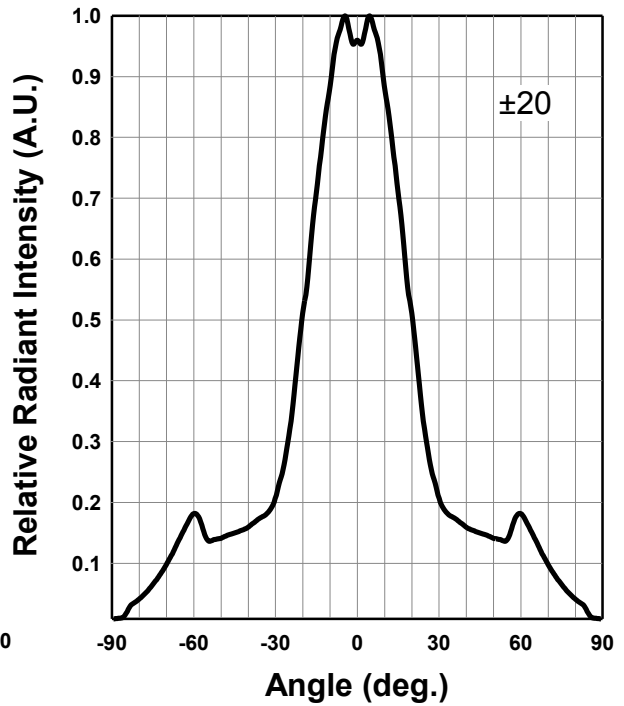




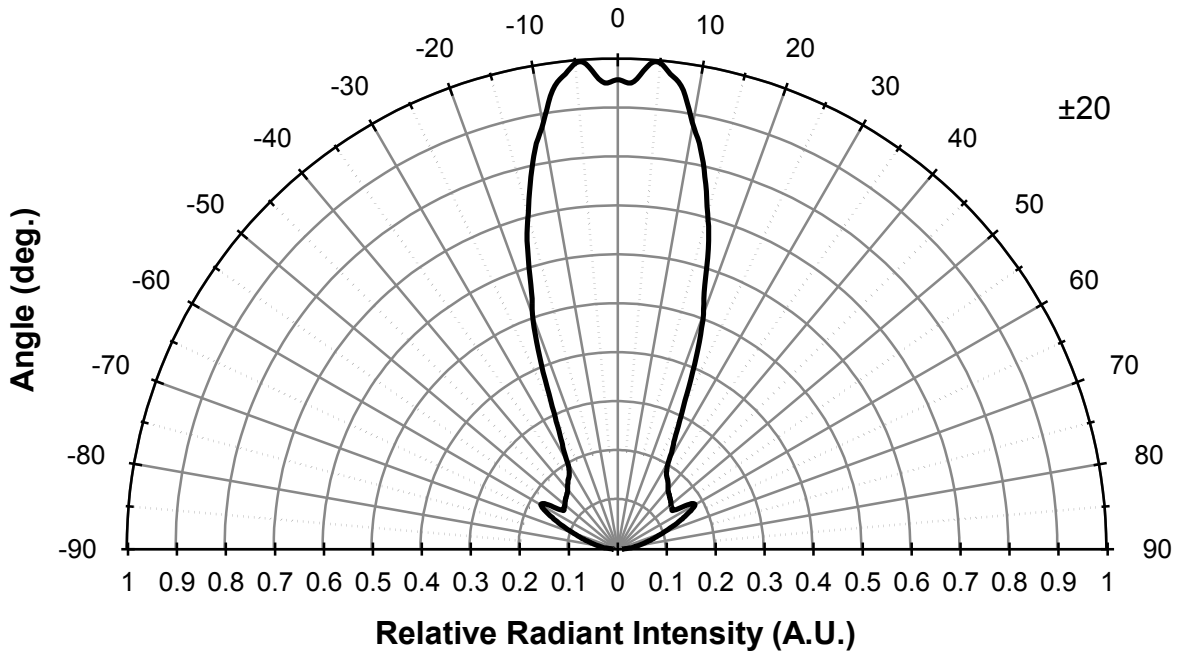
**Relative Spectral Emission**



**Radiation Characteristics**



**Radiation Characteristics**



## Wrapping

Moisture barrier bag aluminum laminated film with a desiccant to keep out the moisture absorption during the transportation and storage.

## SMD LED storage and handling precautions

### Storage Conditions before Opening a Moisture-Barrier Aluminum Bag

- Before opening a moisture-barrier aluminum bag, please store it at <30°C, <60%RH.
- Please note that the maximum shelf life is 12 months under these conditions.

### Storage Conditions after Opening a Moisture-Barrier Aluminum Bag

- After opening a moisture-barrier aluminum bag, store the aluminum bag and silica gel in a desiccator.
- After opening the bag, please solder the LEDs within 72 hours in a room with 5 - 30°C, <50%RH.
- Please put any unused, remaining LEDs and silica gel back in the same aluminum bag and then vacuum-seal the bag.
- It is recommended to keep the re-sealed bag in a desiccator at <30%RH.
  
- The 72-hour- long floor life does not include the time while LEDs are stored in the moisture-barrier aluminum bag. However, we strongly recommend to solder the LEDs as soon as possible after opening the aluminum bag

### Notes about Re-sealing a Moisture-Barrier Aluminum Bag

- When vacuum-sealing an opened aluminum bag, if you find the moisture-indicator of the silica gel has changed to pink from blue (indicating a relative humidity of 30 % or more), please do not use the unused LEDs, the aluminum bag, or the silica gel.

### Notes about Opening a Re-sealed Moisture-Barrier Aluminum Bag

- When opening a vacuumed and re-sealed aluminum bag in order to use the remaining LEDs stored in the bag, if you find that the moisture-indicator of the silica has changed to pink, please do not use the LEDs.

**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.