

SMBB395H-1100

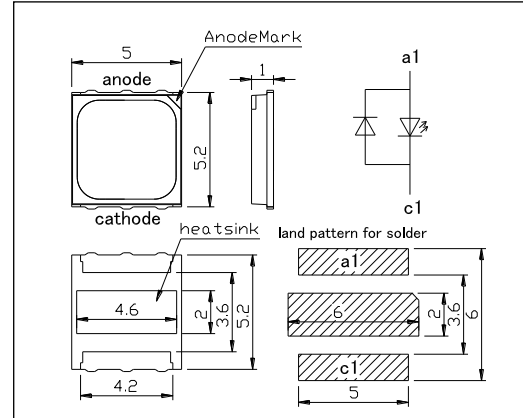
High Power Top LED

SMBB395H-1100 is an InGaN LED mounted on copper heat sink and covered with silicone resin. On forward bias, it emits a band of 395nm.

<Specifications>

1. Product Name: High Power Top LED
2. Type Number: SMBB395H-1100
3. Chip:
 - Chip Material: InGaAs
 - Chip Demension: 1000um x 1000um
 - Chip Number: 1pcs
 - Peak Wavelength: 395nm type
4. Package
 - Lead Frame Die: Silver Plated on Copper
 - Package Resin: PPA Resin
 - Lens: Silicone Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	1500	mW	Ta=25°C
Forward Current	IF	350	mA	Ta=25°C
Pulse Forward Current*	IFP	500	mA	Ta=25°C
Reverse Voltage	VR	Not designed for reverse operation	V	
Junction Temperature	Tj	100	°C	
Thermal Resistance	Rthja	10	K/W	
Operating Temperature	TOPR	-30 ~ +85	°C	
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature**	TSOL	250	°C	

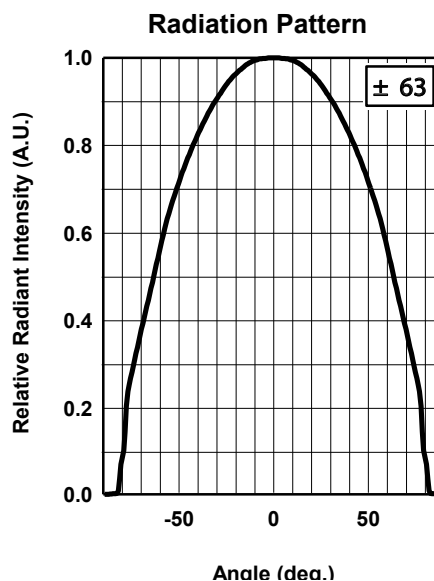
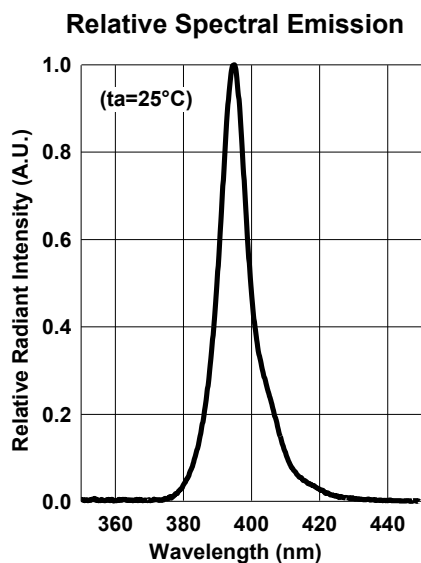
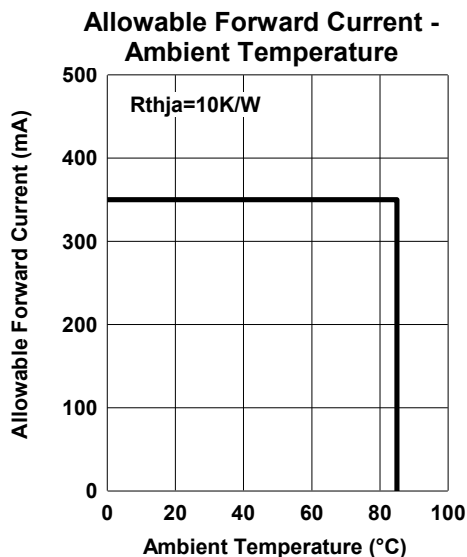
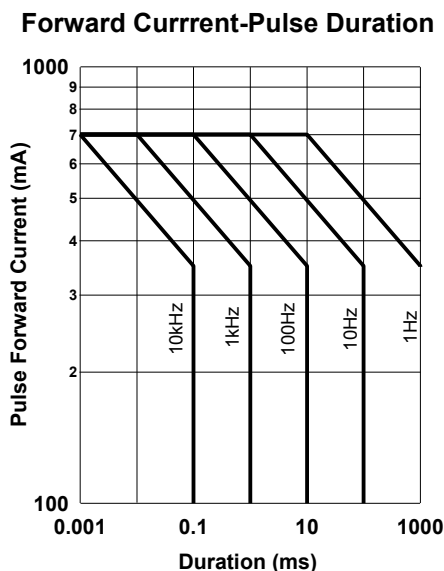
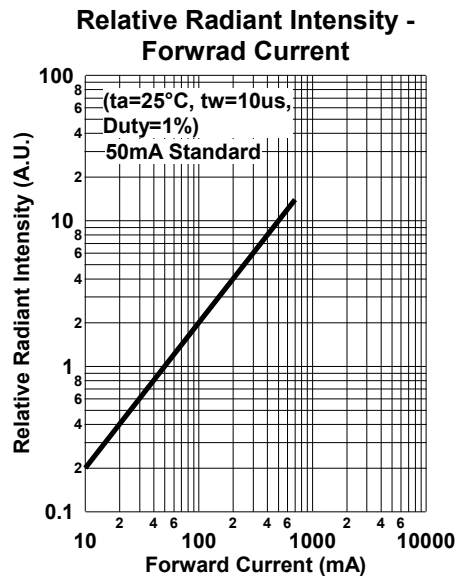
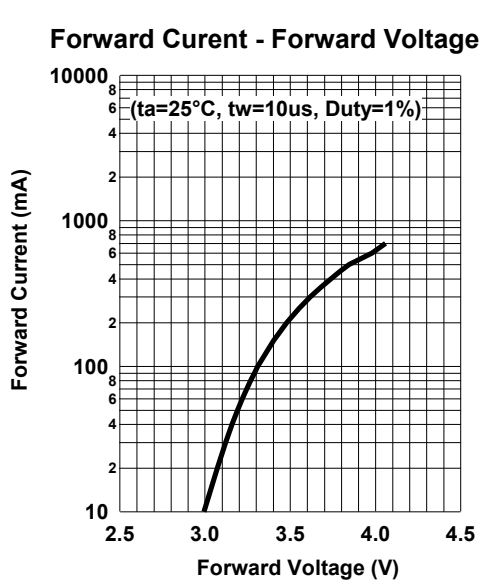
* Duty=1% and Pulse Width=10us

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

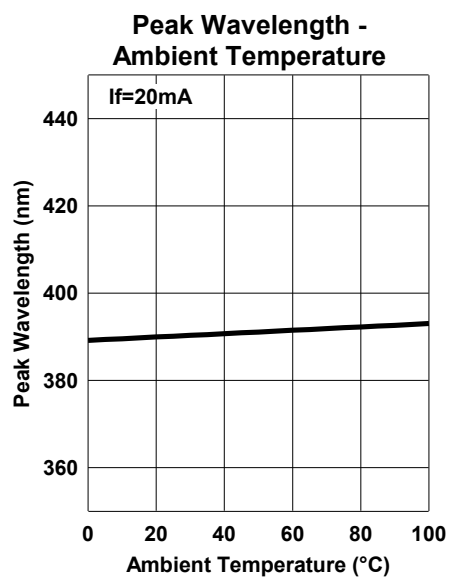
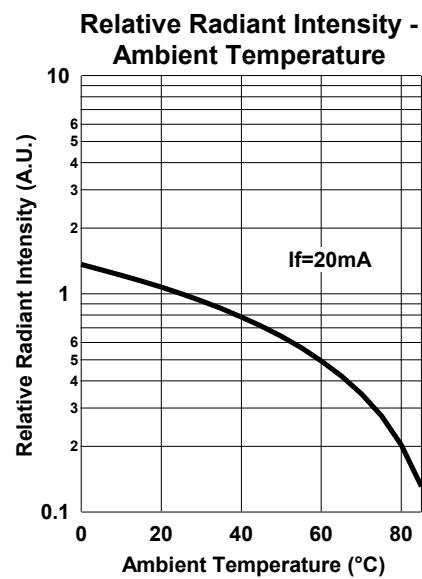
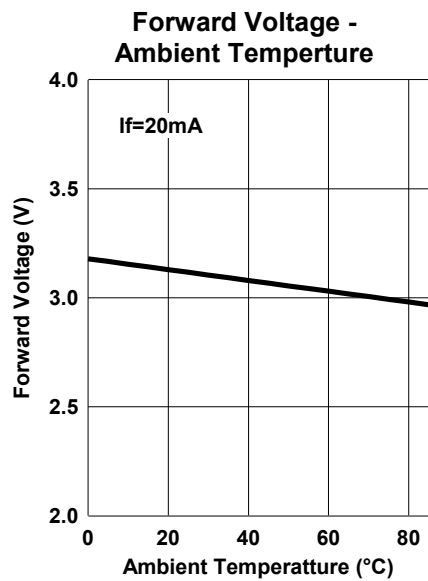
Electro-Optical Characteristics[Tw=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=200mA		3.5	4.3	V
		IF=350mA		3.7	4.5	
Pulse Forward Voltage	VFP	IFP=500mA		3.9	5.3	V
Radiated Power*	PO	IF=200mA		100		mW
Peak Wavelength	λP	IF=200mA		395		nm
Half Width	Δλ	IF=200mA		14		nm
Viewing Half Angle	θ1/2	IF=200mA		±60		deg

* Measured by S3584-08





2011.06.20



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.

< 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.

※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.