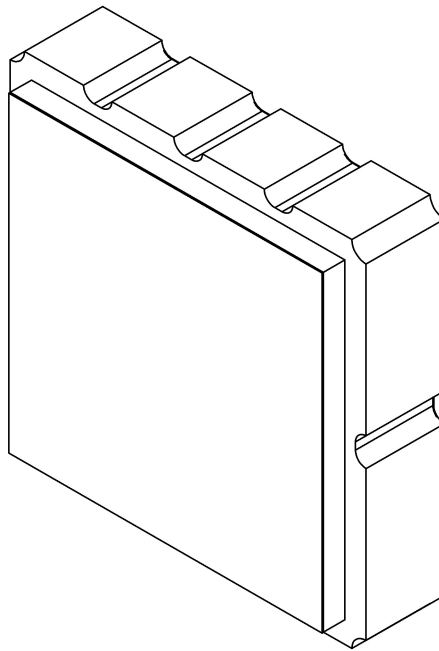




Broad Band LED

BBSMD5050-BB1-60-008



Features

- Chip size: $1.1 \times 1.1\text{mm}$
- Number of Chips: 1pc
- Excitation Wavelength: 365nm
- Optical efficiency (typ.) : 84mW
- Viewing half angle: 48°
- Package : Ceramic
- Lens: Sapphire Glass
- Phosphor-containing silicone resin

Applications

Maximum Ratings (Tc=25°C)

Parameter	Symbol	Values	Unit
Power Dissipation	P _D	2100	mW
Forward Current	I _F	500	mA
Pulse Forward Current	I _{FP}	1000	mA
Reverse Voltage	V _R	5	V
Junction Temperature	T _j	125	°C
Operating Temperature	T _{opr}	-30~85	°C
Storage Temperature	T _{stg}	-40~100	°C
Thermal Resistance	R _{thjs}	10	°C/W

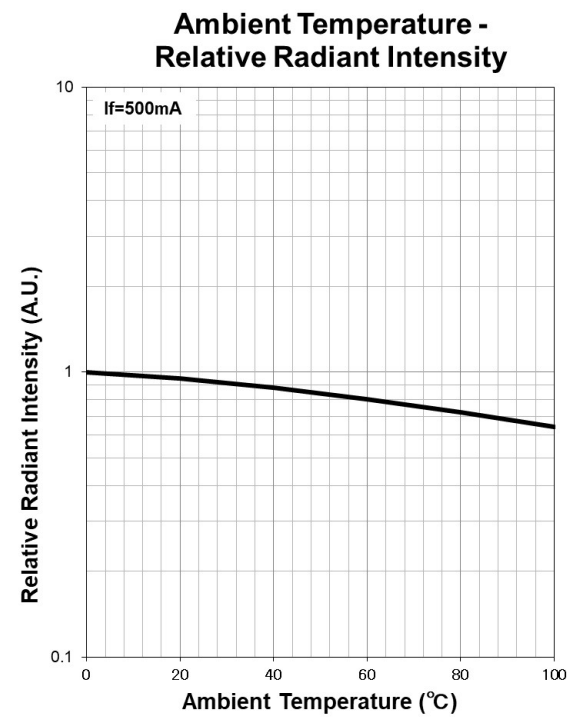
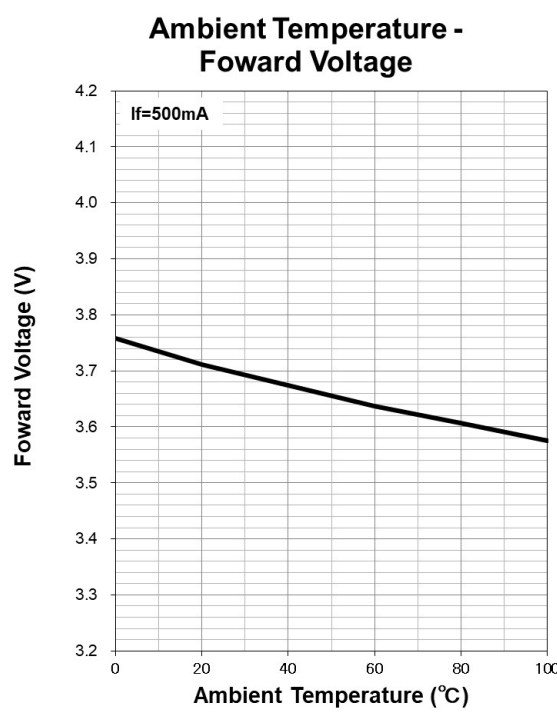
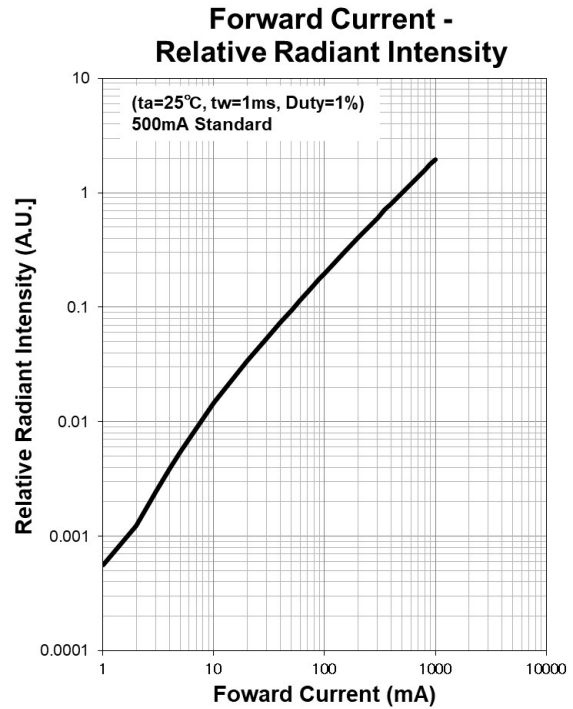
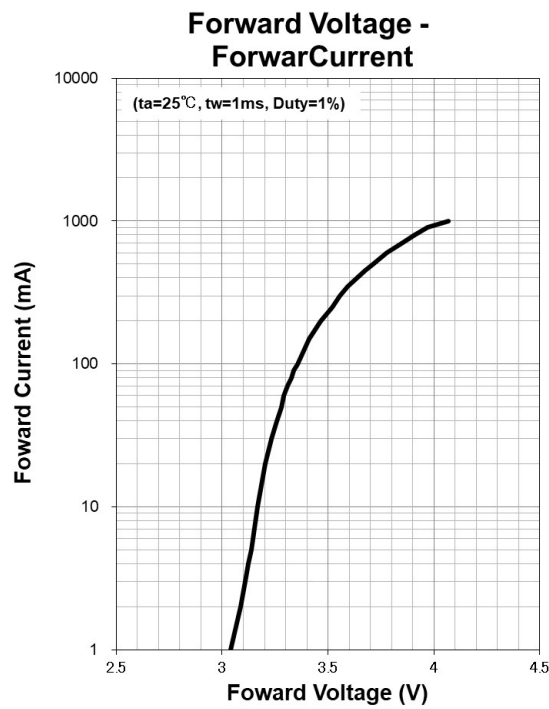
※Pulse Forward Current Condition : Duty 1% and Pulse Width=1ms.

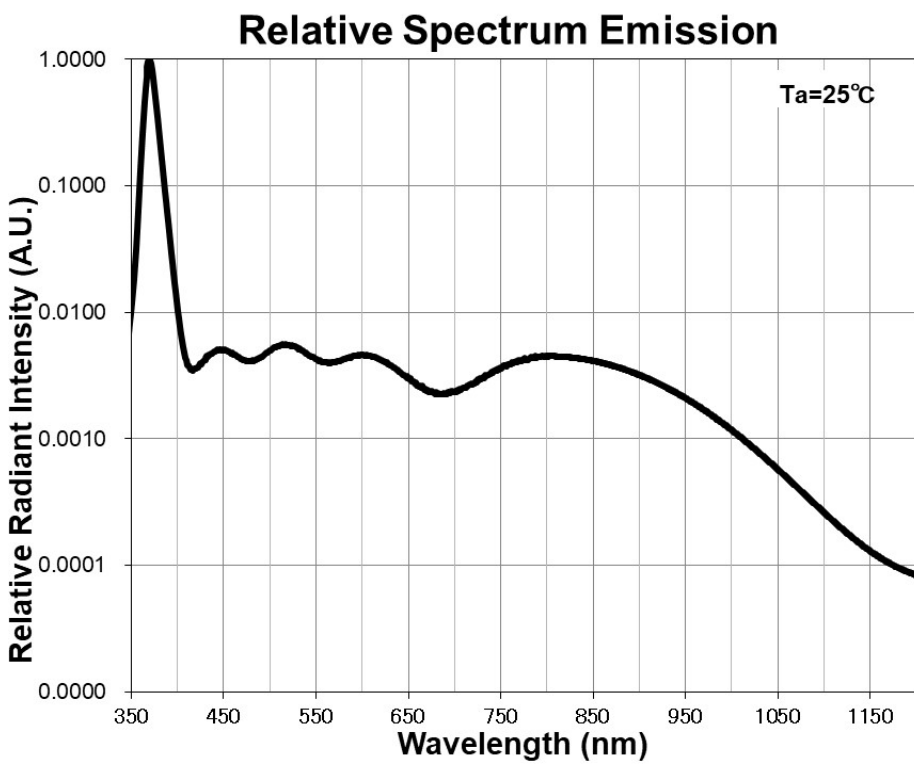
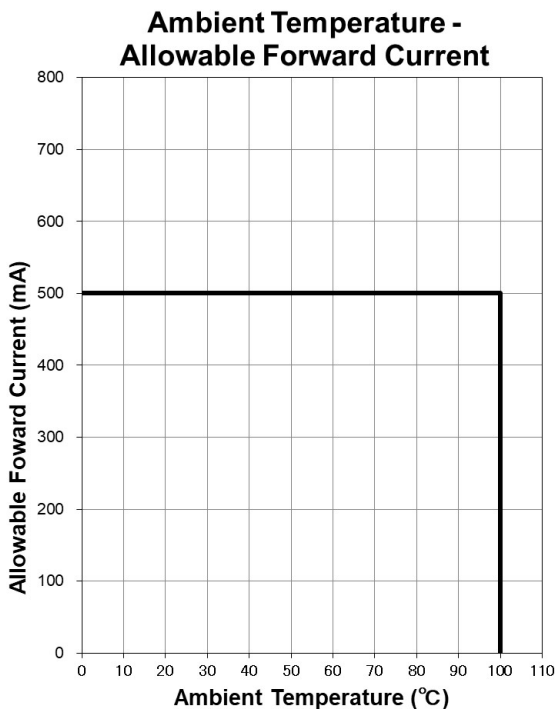
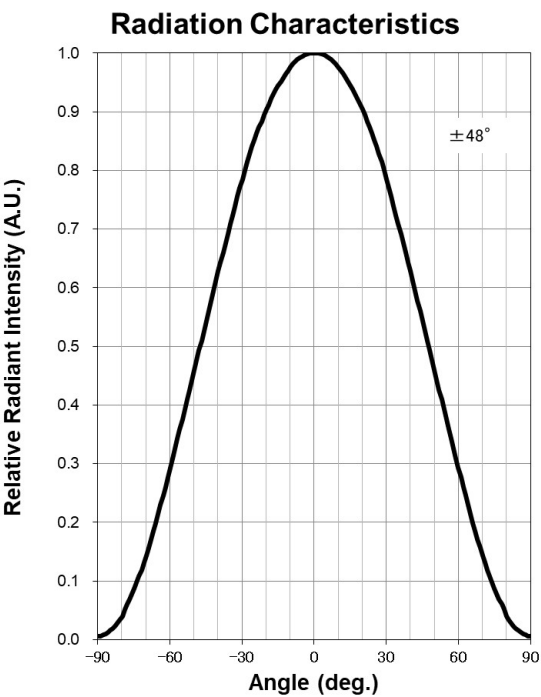
※Soldering condition : Soldering condition must be completed with 10 seconds at below 260°C

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V _F		3.7	4.2	V	I _F =500mA
	V _{FP}		4.1		V	I _{FP} =1000mA
Radiated Power	P _O		84		mW	I _F =500mA
			190		mW	I _{FP} =1000mA
Excitation wavelength	λ		365		nm	I _F =500mA
Viewing Half Angle	θ 1/2		48		deg	I _F =100mA

Typical Characteristic Curves





Outline and Internal Circuit

