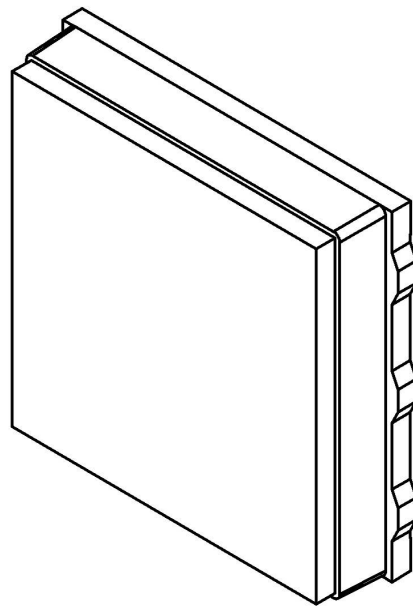


UVSMD5050-365-60-002



UVSMD5050-365-60-002

365nm HIGH POWER LED



Features

- Chip size: 1.05×1.05mm
- Number of Chips: 1pc
- Peak Wavelength: 365nm
- Optical efficiency (typ.) : 1500mW
- Viewing half angle: 60°
- Package : SMD Resin package
- Lens: Glass

UVSMD5050-365-60-002

Maximum Ratings (Tc=25°C)

| Parameter | Symbol | Values | Unit |
|-----------------------|-------------------|---------|------|
| Power Dissipation | P _D | 4200 | mW |
| Forward Current | I _F | 1000 | mA |
| Pulse Forward Current | I _{FP} | 3000 | mA |
| Reverse Voltage | V _R | 5 | V |
| Junction Temperature | T _j | 120 | °C |
| Operating Temperature | T _{opr} | -30~85 | °C |
| Storage Temperature | T _{stg} | -40~100 | °C |
| Thermal Resistance | R _{thja} | 10 | K/W |

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

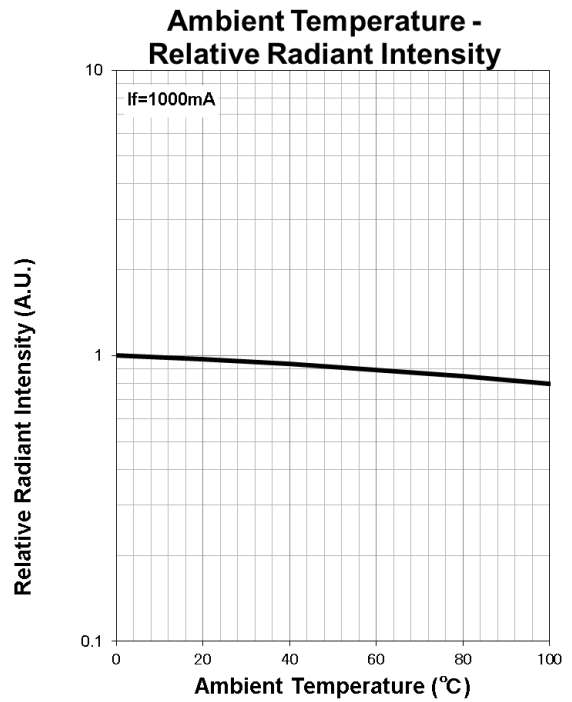
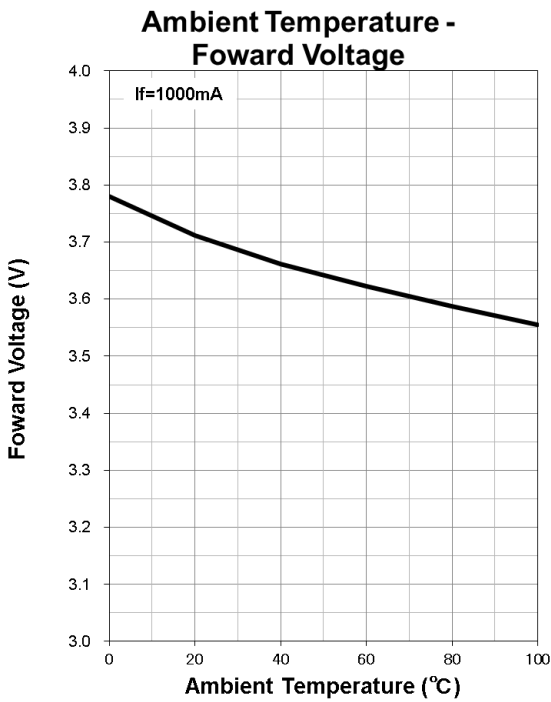
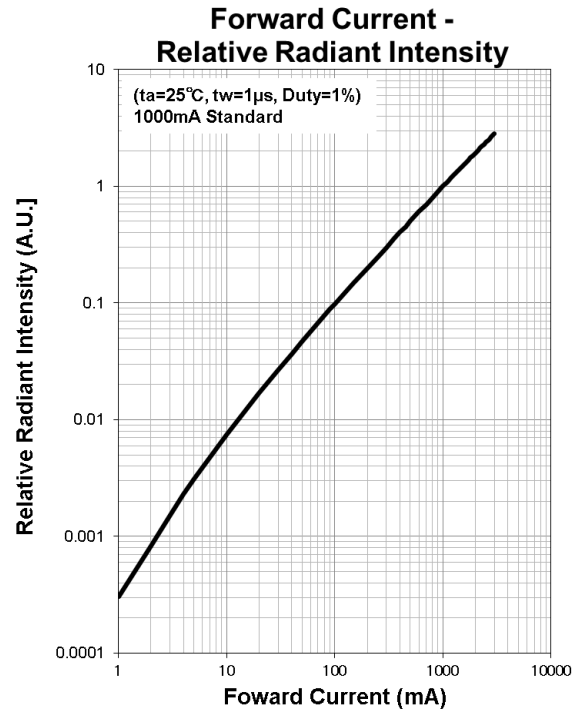
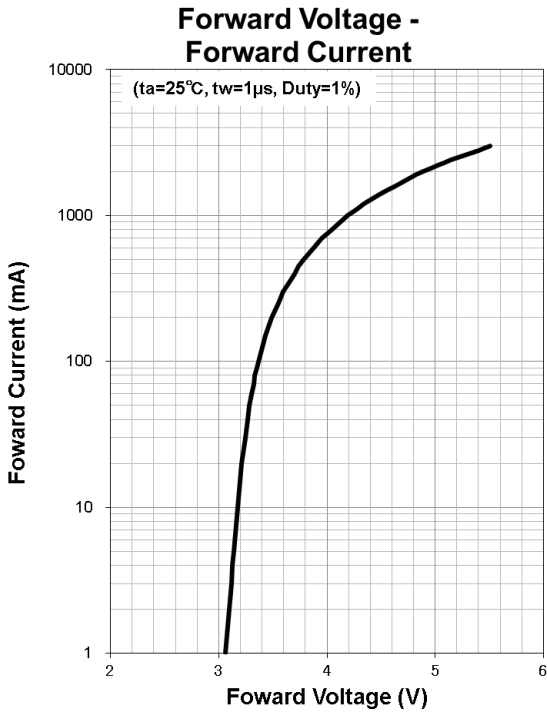
※Soldering condition : Soldering condition must be completed with 5 seconds at below 260°C

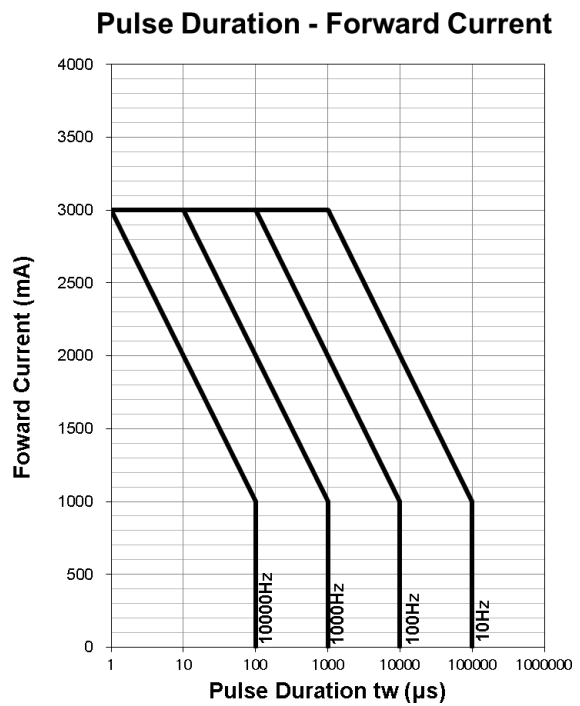
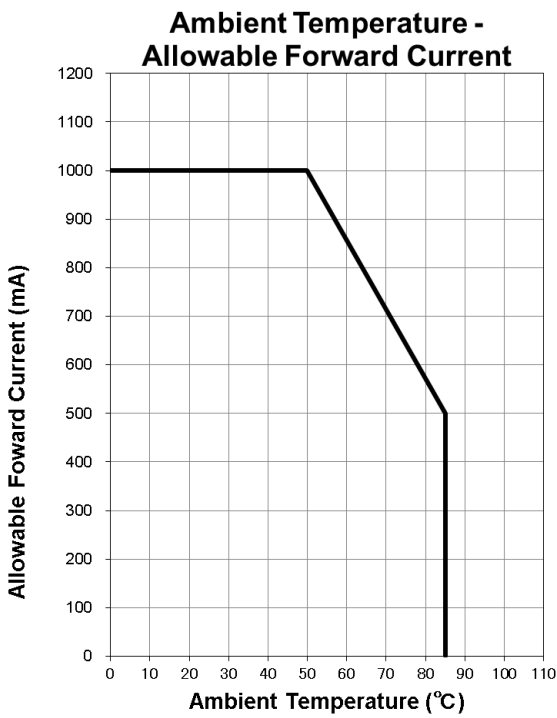
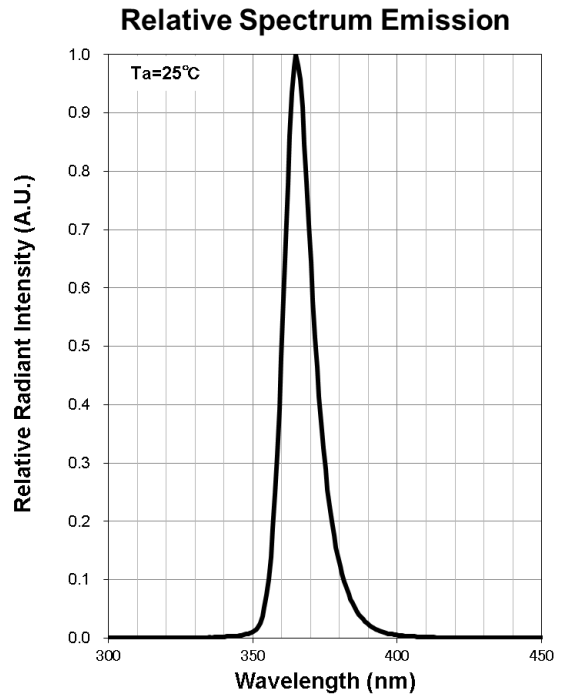
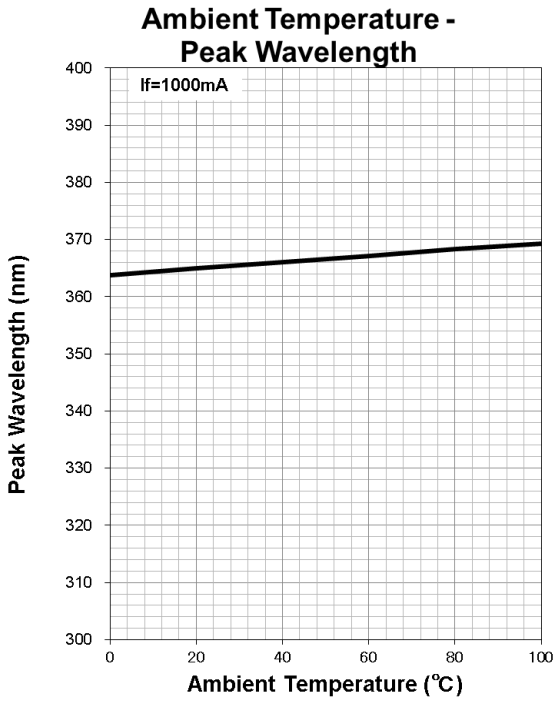
Optical and Electrical Characteristics (Tc=25°C)

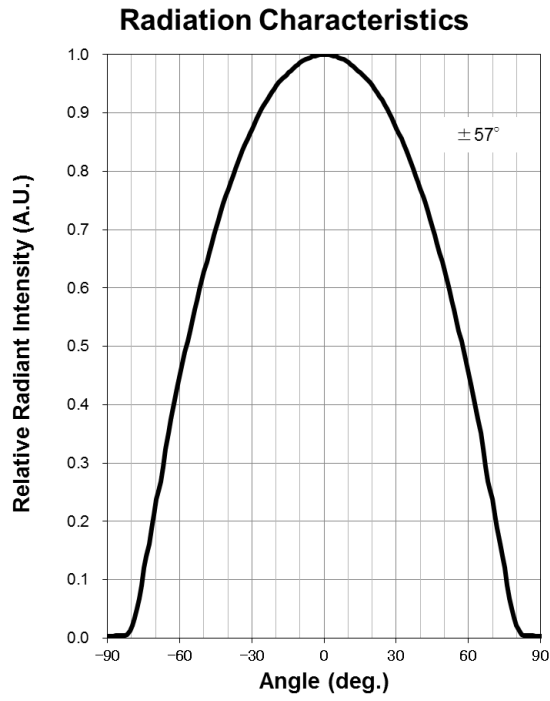
| Parameter | Symbol | Min | Typ | Max | Unit | Test Condition |
|--------------------|-----------------|-----|------|-----|------|-------------------------|
| Forward Voltage | V _F | | 3.7 | 4.2 | V | I _F =1000mA |
| | V _{FP} | | 3.7 | | V | I _{FP} =3000mA |
| Radiated Power | P _O | | 1500 | | mW | I _F =1000mA |
| | | | 4950 | | mW | I _{FP} =3000mA |
| Peak Wavelength | λ _p | | 365 | | nm | I _F =1000mA |
| Half Width | Δλ | | 12 | | nm | I _F =1000mA |
| Viewing Half Angle | θ 1/2 | | ±60 | | deg | I _F =100mA |

※Radiated Power is measured by S3584-08.

Typical Characteristic Curves







UVSMD5050-365-60-002

Outline and Internal Circuit

