



UVLED375-10-30

1. SPECIFICATIONS

(1) Absolute Maximum Ratings

(Ta=25°C)

| Item | Symbol | Absolute Maximum Rating | Unit |
|---------------------------|------------------|-------------------------|------|
| Forward Current | I _F | 20 | mA |
| Pulse Forward Current | I _{FP} | 80 | mA |
| Allowable Reverse Current | I _R | 85 | mA |
| Power Dissipation | P _D | 80 | mW |
| Operating Temperature | T _{opr} | -30 ~ + 85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +100 | °C |
| Soldering Temperature | T _{sld} | 265°C for 10sec. | |

I_{FP} Conditions : Pulse Width ≤ 10msec. and Duty ≤ 1/10

(2) Initial Electrical/Optical Characteristics

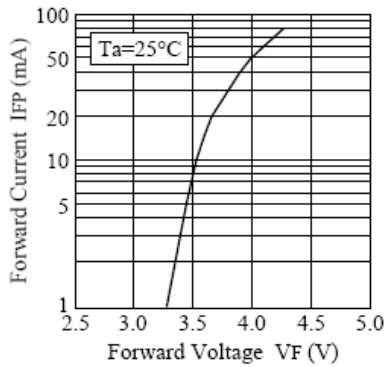
(Ta=25°C)

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit | |
|----------------------|---------------------------|------------------------|------------------------|-------|------|-------|----|
| Forward Voltage | V _F | I _F =15[mA] | - | (3.6) | 4.0 | V | |
| Peak Wavelength | Rank Ub λ _P | I _F =15[mA] | 370 | (375) | 380 | nm | |
| Spectrum Half Width | Δλ | I _F =15[mA] | - | (15) | - | nm | |
| Optical Power Output | Rank 7 | P _o | I _F =15[mA] | 4800 | - | 6800 | μW |
| | Rank 8 | P _o | I _F =15[mA] | 6800 | - | 9600 | μW |
| | Rank 9 | P _o | I _F =15[mA] | 9600 | - | 13600 | μW |

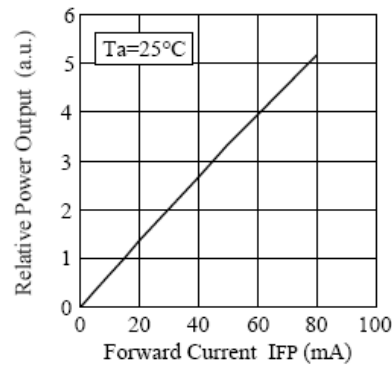




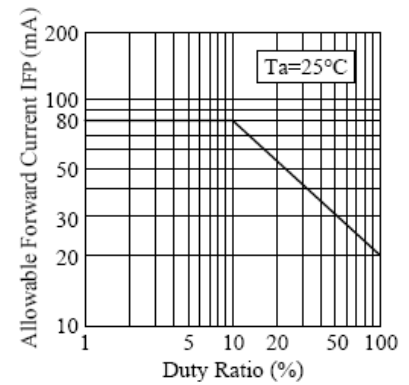
■ Forward Voltage vs. Forward Current



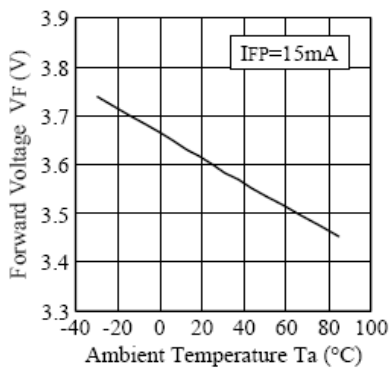
■ Forward Current vs. Relative Power Output



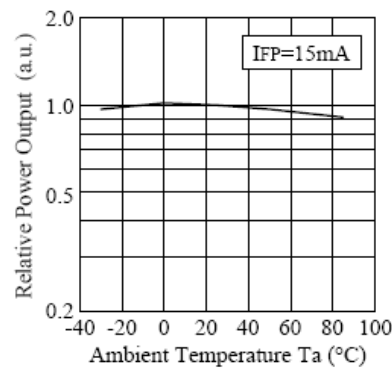
■ Duty Ratio vs. Allowable Forward Current



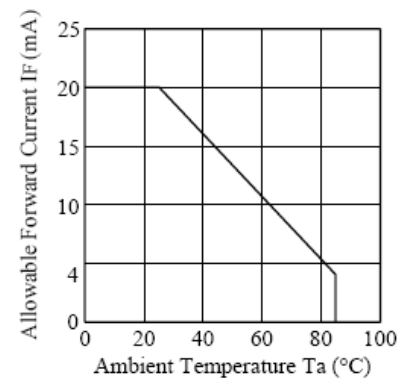
■ Ambient Temperature vs. Forward Voltage



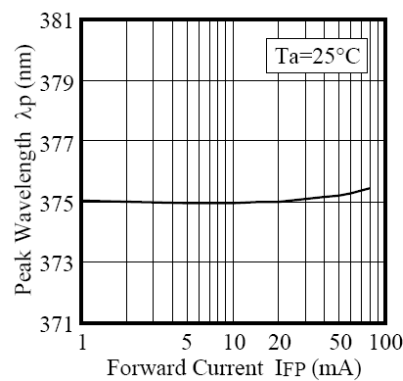
■ Ambient Temperature vs. Relative Power Output



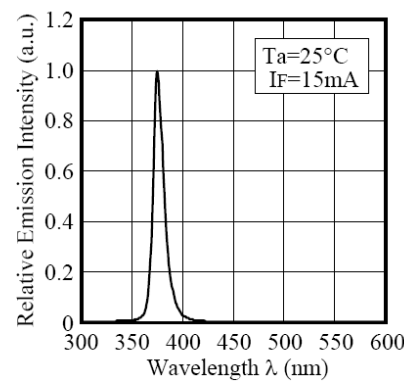
■ Ambient Temperature vs. Allowable Forward Current



■ Forward Current vs. Peak Wavelength

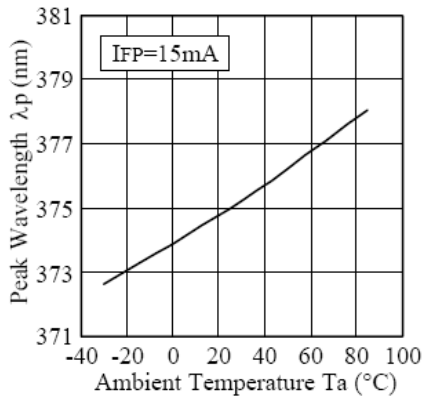


■ Spectrum

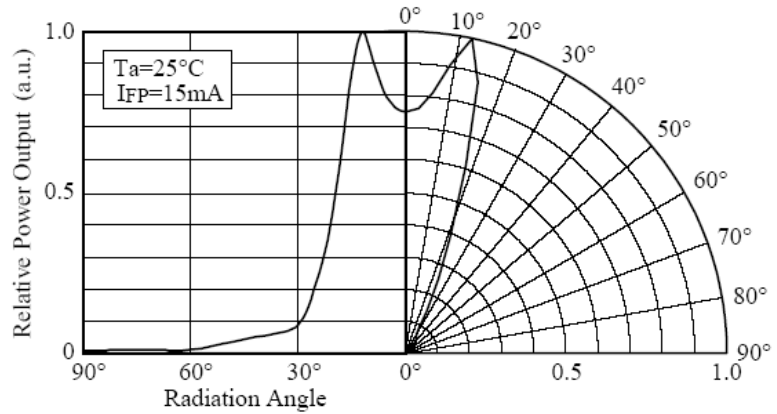




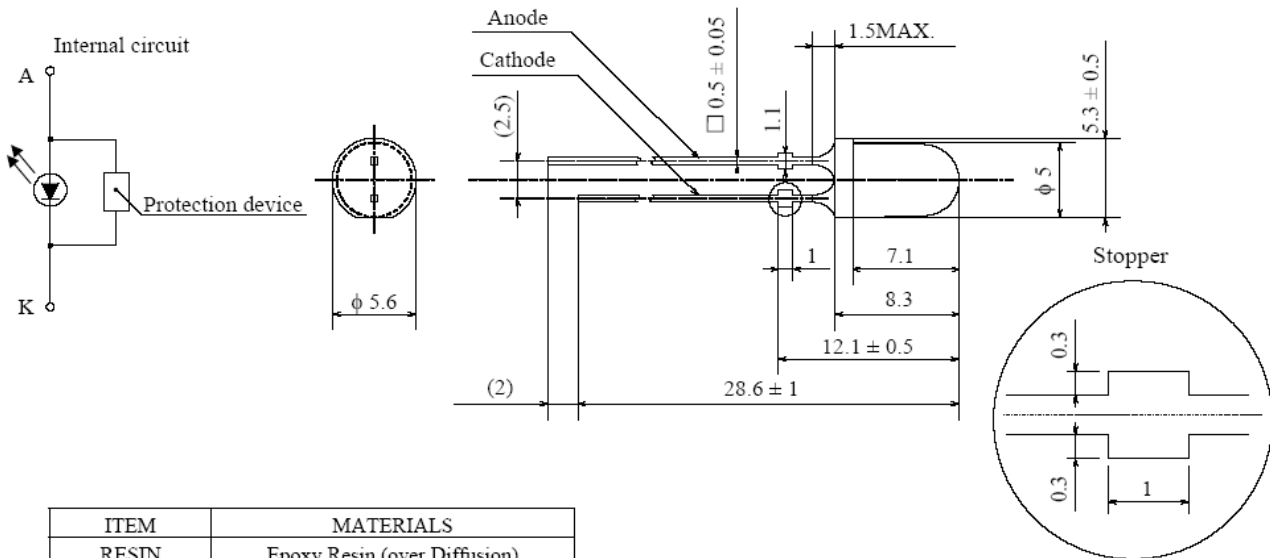
■ Ambient Temperature vs. Peak Wavelength



■ Directivity



Drawing:



| ITEM | MATERIALS |
|------------|------------------------------|
| RESIN | Epoxy Resin (over Diffusion) |
| LEAD FRAME | Ag Plating Copper Alloy |