



High-power Infrared LED



Features

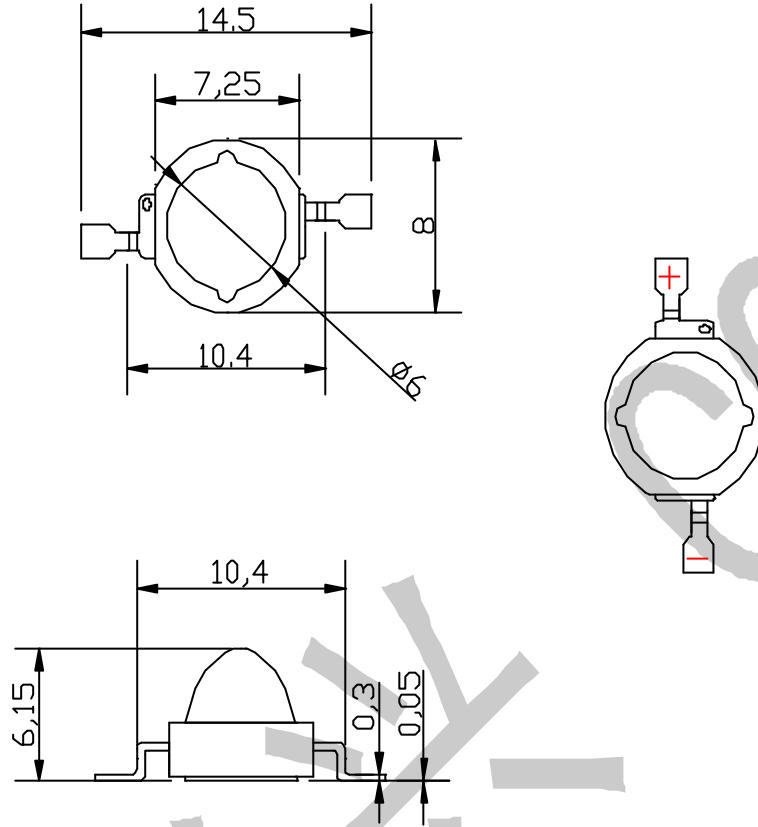
- ◆ High luminous efficiency
- ◆ Wide angle: 60 °
- ◆ Maximum operating current: 1 A
- ◆ High thermal conductivity ceramic substrate
- ◆ Low thermal resistance: 9 /W
- ◆ Electrically neutral thermal path
- ◆ RoHS-compliant

Applications

- ◆ Infrared illumination for cameras
- ◆ Surveillance system
- ◆ Machine vision system
- ◆ CCTV
- ◆ Wireless communication



Package Dimension



Notes : 1、 All dimensions are in millimeters.

2、 Tolerance is ± 0.25 mm unless otherwise noted.

Device Selection Guide

Chip Materials	Lens Color
GaAlAs	Water clear



Absolute Maximum Ratings at Ta=25

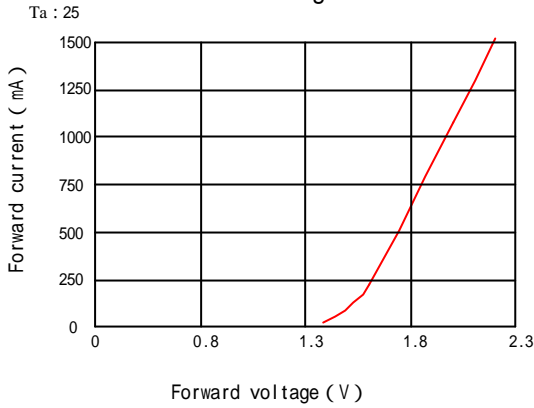
Parameter	Symbol	MAX	Unit
Power Dissipation at(or below) 25 free air temperature	P_d	2000	mW
Peak Forward Current (1/10 Duty Cycle,0.1ms Pulse Width)	I_{FP}	2000	mA
Continuous Forward Current	I_F	1000	mA
LED Junction Temp	T_j	115	
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{opr}	-40 to +85	
Storage Temperature Range	T_{stg}	-40 to +100	
Reflow soldering temperature	T_{sol}	225 for 10 seconds	

Electrical Optical Characteristics

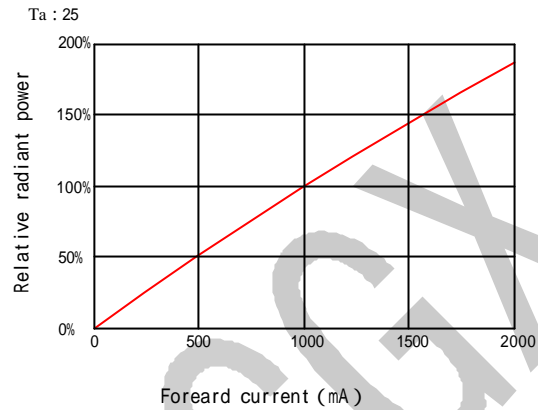


Typical Electro-Optical Characteristics Curve

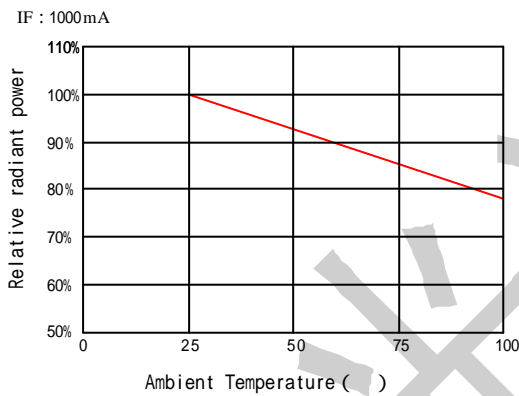
Forward current Vs. Forward voltage



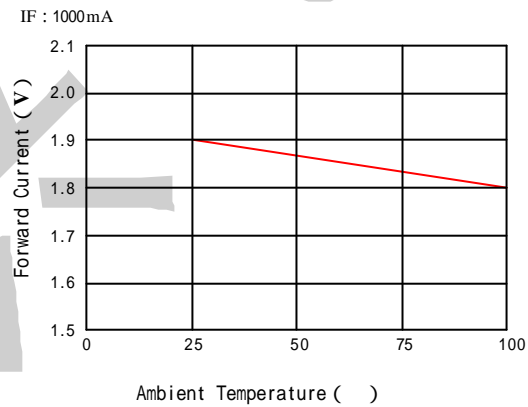
Relative Radiant power vs. Forward Current



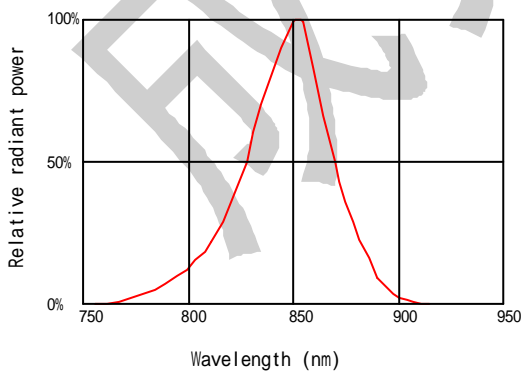
Relative Radiant power vs. Ambient Temperature



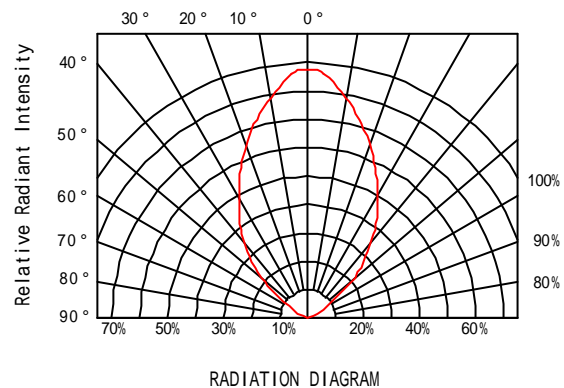
Forward Current vs. Ambient Temperature



Spectral Distribution



Relative Radiant Intensity vs. Angular Displacement





Reliability test items and test conditions

The reliability of products shall be satisfied with items listed

