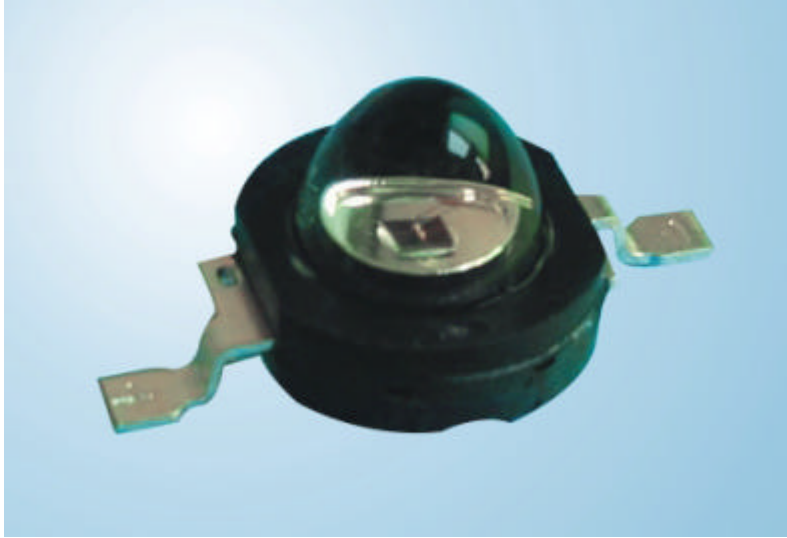




## High-power Infrared LED



### Features

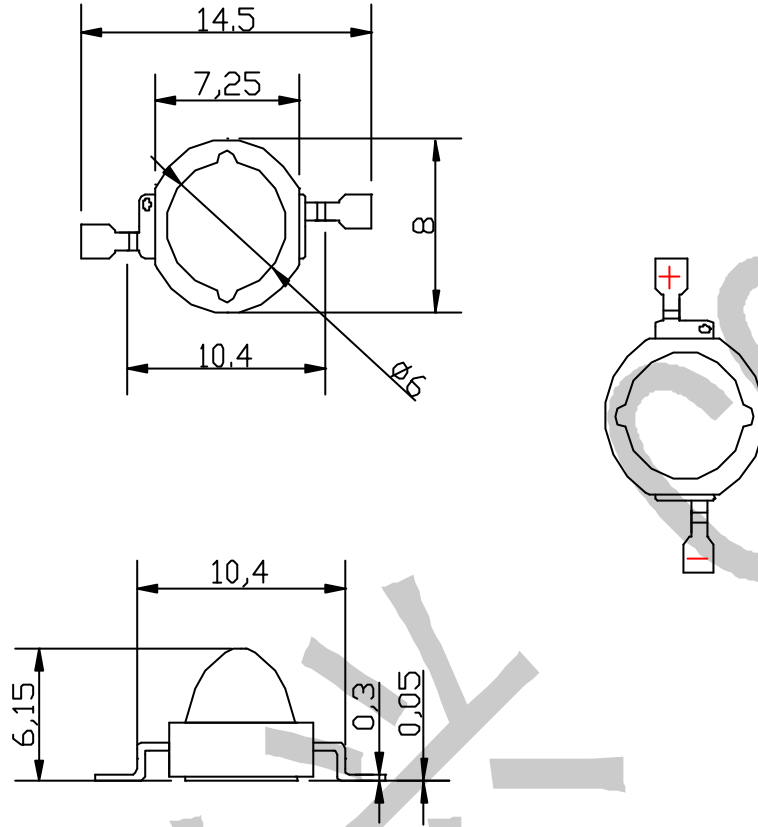
- ◆ High luminous efficiency
- ◆ Wide angle: 60 °
- ◆ Maximum operating current: 1 A
- ◆ High thermal conductivity ceramic substrate
- ◆ Low thermal resistance: 9 /W
- ◆ Electrically neutral thermal path
- ◆ RoHS-compliant

### 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  $\pm 0.25$ mm unless otherwise noted.

## Device Selection Guide

Chip Materials	Lens Color
GaAlAs	Water clear



## Absolute Maximum Ratings at Ta=25

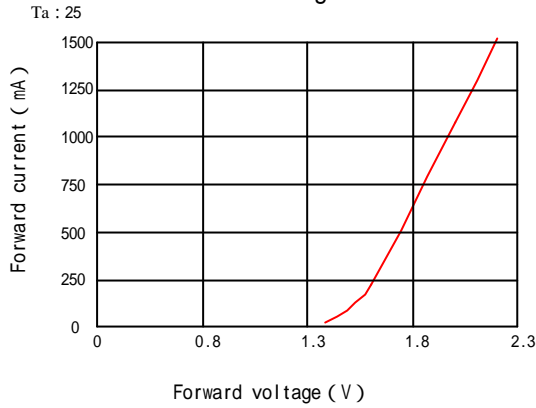
Parameter	Symbol	MAX	Unit
Power Dissipation at(or below) 25 free air temperature	$P_d$	2000	mW
Peak Forward Current (1/10 Duty Cycle,0.1ms Pulse Width)	$I_{FP}$	2000	mA
Continuous Forward Current	$I_F$	1000	mA
LED Junction Temp	$T_j$	115	
Reverse Voltage	$V_R$	5	V
Operating Temperature Range	$T_{opr}$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

## Electrical Optical Characteristics

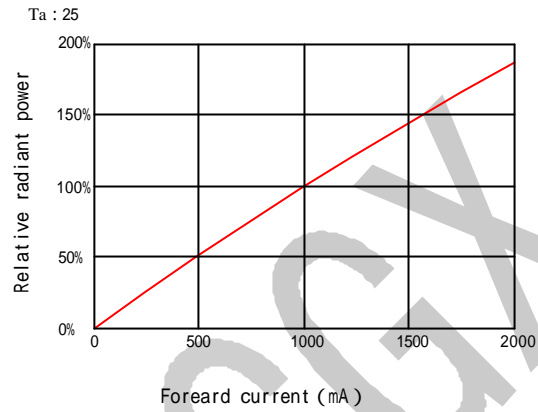


## Typical Electro-Optical Characteristics Curve

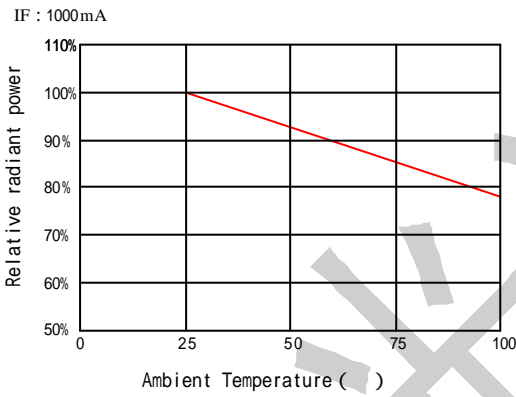
Forward current Vs.  
Forward voltage



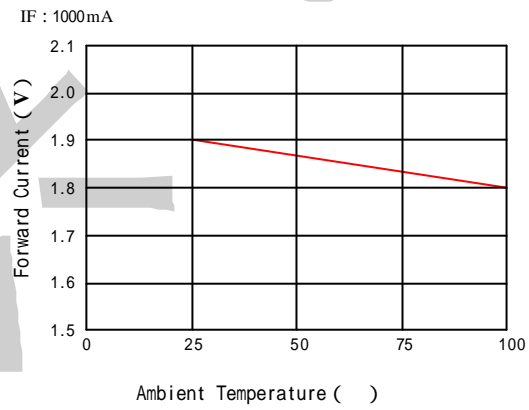
Relative Radiant power  
vs. Forward Current



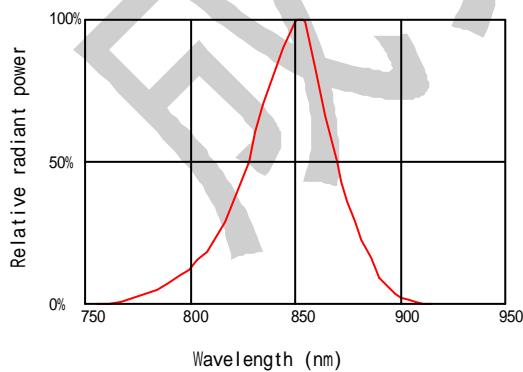
Relative Radiant power  
vs. Ambient Temperature



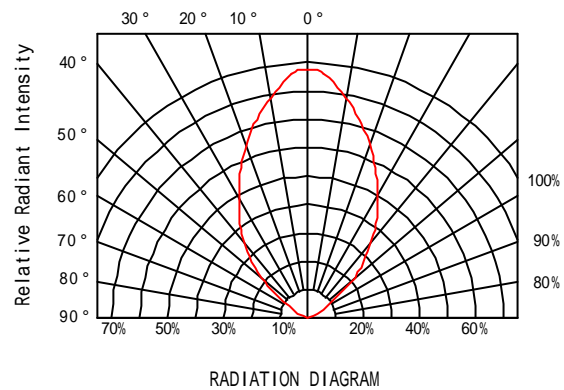
Forward Current vs.  
Ambient Temperature



Spectral Distribution



Relative Radiant Intensity  
vs. Angular Displacement





## Reliability test items and test conditions

The reliability of products shall be satisfied with items listed

