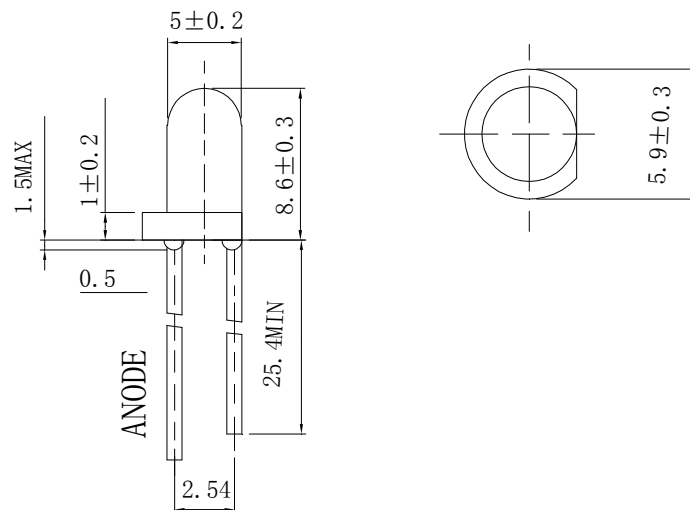


Features

- 5mm IR LED
- Wide Range Of Collector Current
- Lensed for high sensitivity.
- Low cost plastic side looking package.
- Clear transparent color package.
- Meet ROHS Green Product
- Package: 1000pcs/pack

Applications

- Emitter

Package Dimensions**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.01") unless otherwise noted.
3. Specifications are subject to change without notice
4. This drawing is only for reference, not as a basis for the actual structure.

**Selection Guide**

Part No	Lens Type	Dice	Emitted Color
FDI-5861E8820-TC1	Water Clear	-	-

Electrical / Optical Characteristics At Ta=25°C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
I _E	Radiant Intensity	8.0	12.0		mw/sr	IF=20mA
2θ _{1/2}	Viewing Angle		20		deg	IF=20mA
λ _{Peak}	Peak Emission Wavelength		880		nm	IF=20mA
Δλ	Spectral Line Half-Width		50		nm	IF=20mA
V _F	Forward Voltage		1.4	1.7	V	IF=20mA
I _R	Reverse Current			10	uA	VR 5V

Absolute Maximum Ratings At Ta=25°C

Parameter	Maximum Rating	Unit
Power Dissipation	100	mW
Peak Forward Current[1]	1	A
Continuous Forward Current	50	mA
Reverse Voltage	5	V
Operating Temperature Range	-20°C to + 80°C	
Storage Temperature Range	-30°C to + 100°C	
Soldering Condition	260°C For 5 Seconds	

Note:

1. 1/10 Duty Cycle, 10 μ s PulseWidth

Electrical Optical Characteristics Curves At Ta=25°C

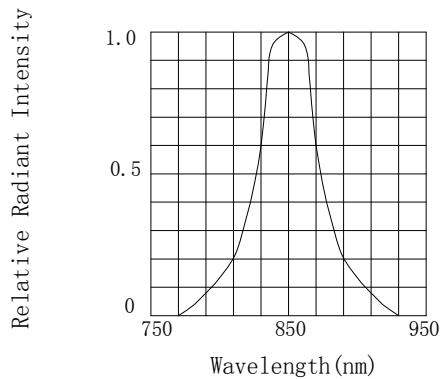


Fig. 1 Spectral Distribution

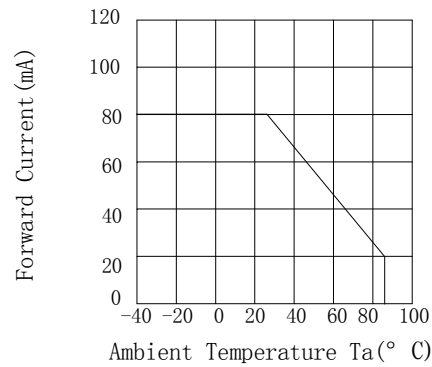


Fig. 2 Forward Current VS. Ambient Temperature

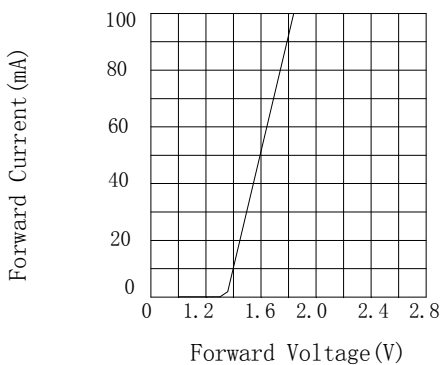


Fig. 3 Forward Current VS. Forward Voltage

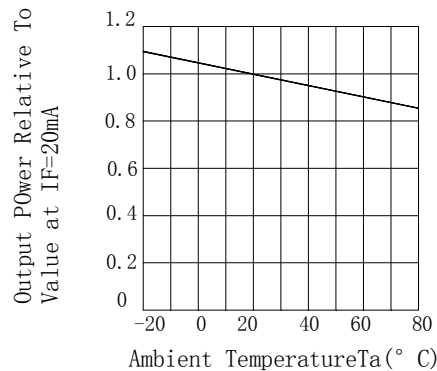


Fig. 4 Relative Radiant Intensity VS. Ambient Temperature

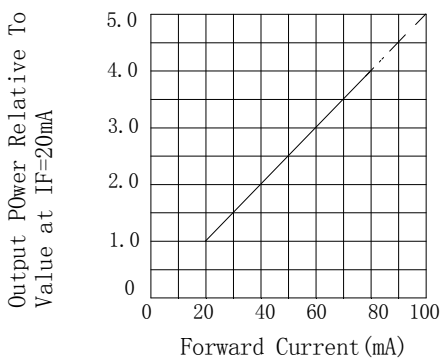


Fig. 5 Relative Radiant Intensity VS. Forward Current

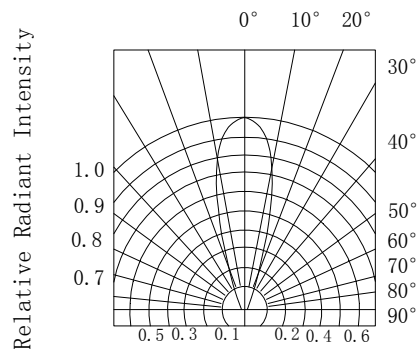


Fig. 6 Radiation Diagram