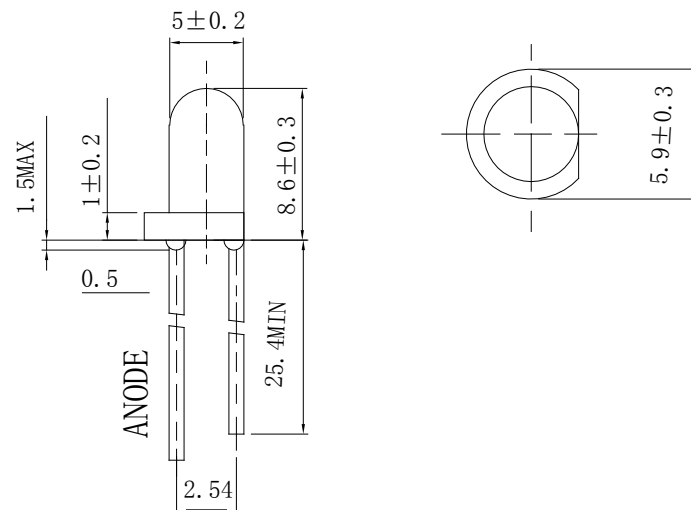


Features

- 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.



FDI-5861E840A40-ZWCLWDC

Selection Guide

Part No	Lens Type	Dice	Emitted Color
FDI-5861E840A40-ZWCLWDC	Water Clear	-	-

Electrical / Optical Characteristics At Ta=25 °C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
I _E	Radiant Intensity		80		mw/sr	IF=20mA
2θ1/2	Viewing Angle		40		deg	IF=20mA
λ _{Peak}	Peak Emission Wavelength		840		nm	IF=20mA
Δλ	Spectral Line Half-Width		50		nm	IF=20mA
V _F	Forward Voltage		1.2	1.7	V	IF=20mA
I _R	Reverse Current			10	μ A	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

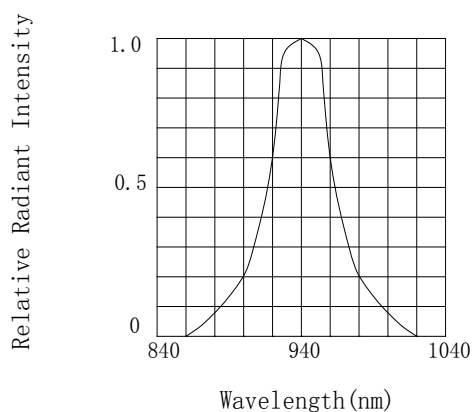


FIG. 1 SPECTRAL DISTRIBUTION

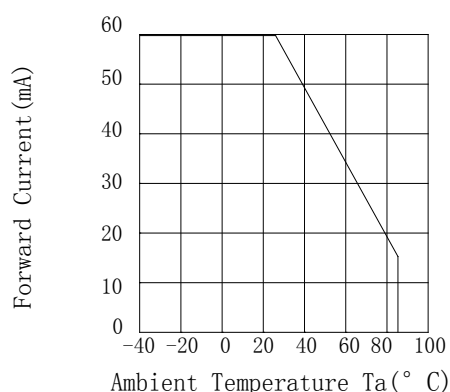


FIG. 2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

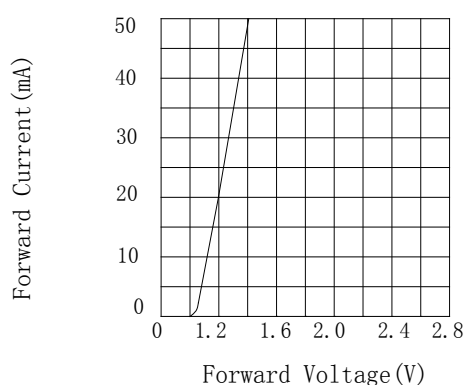


FIG. 3 FORWARD CURRENT VS. FORWARD VOLTAGE

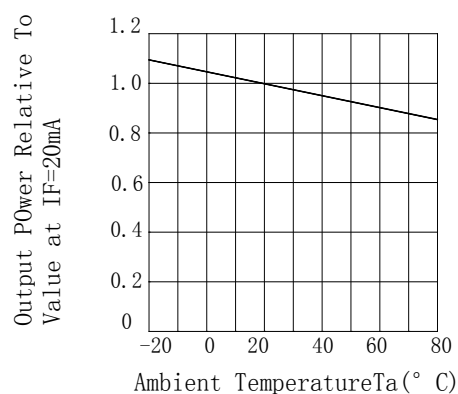


FIG. 4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

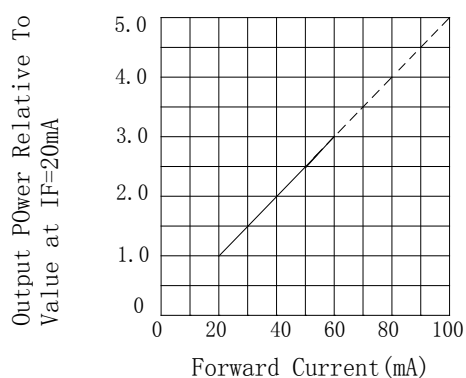


FIG. 5 RELATIVE RADIANT INTENSITY

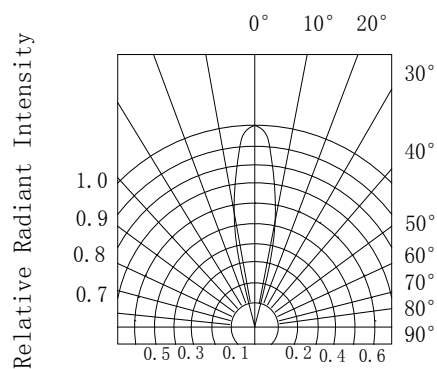


FIG. 6 RADIATION DIAGRAM