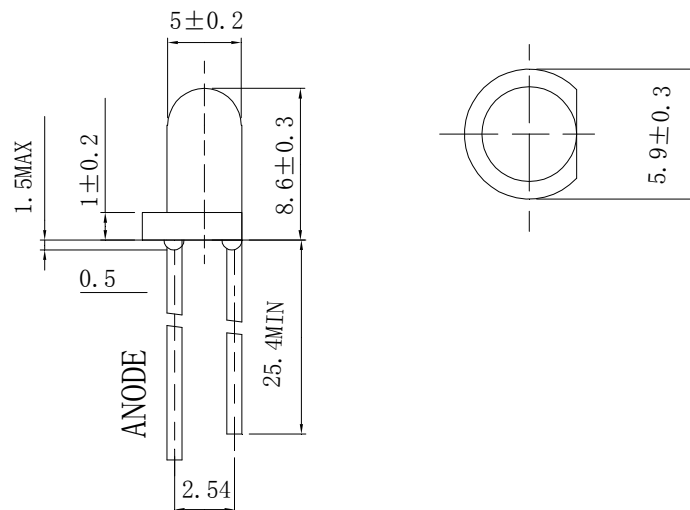


**Features**

- 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  $\pm 0.25$ 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-5861E4940-ZWCDZS	Water Clear	-	-

**Electrical / Optical Characteristics At Ta=25°C**

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
I <sub>E</sub>	Radiant Intensity	8.0	12.0		mw/sr	IF=20mA
2θ <sub>1/2</sub>	Viewing Angle		40		deg	IF=20mA
λ <sub>Peak</sub>	Peak Emission Wavelength		940		nm	IF=20mA
Δλ	Spectral Line Half-Width		50		nm	IF=20mA
V <sub>F</sub>	Forward Voltage		1.4	1.7	V	IF=20mA
I <sub>R</sub>	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**

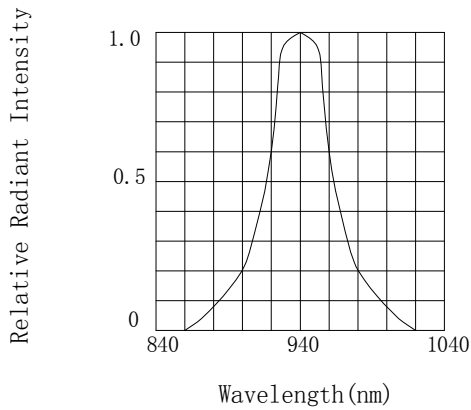


FIG. 1 SPECTRAL DISTRIBUTION

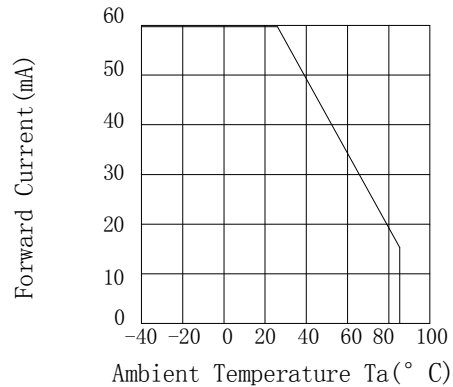


FIG. 2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

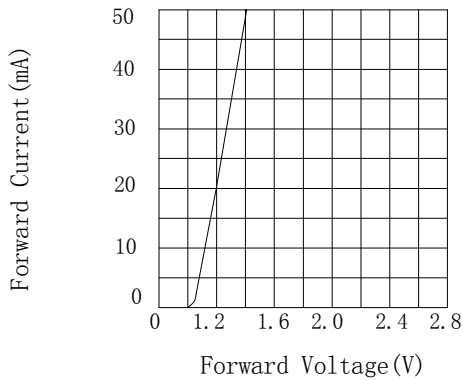


FIG. 3 FORWARD CURRENT VS. FORWARD VOLTAGE

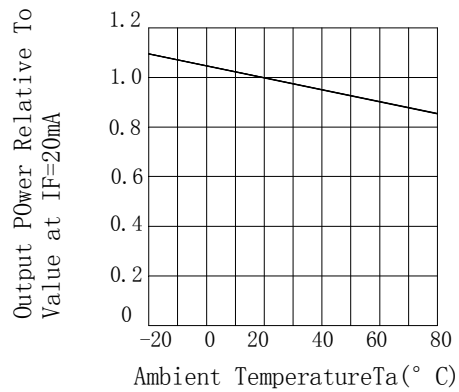


FIG. 4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

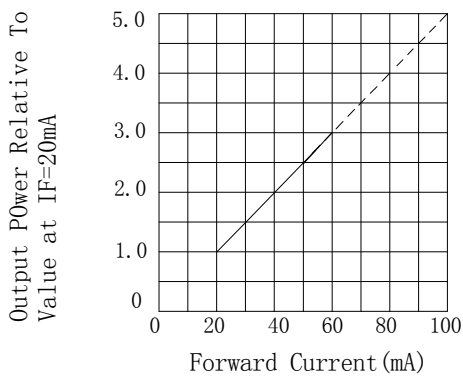


FIG. 5 RELATIVE RADIANT INTENSITY

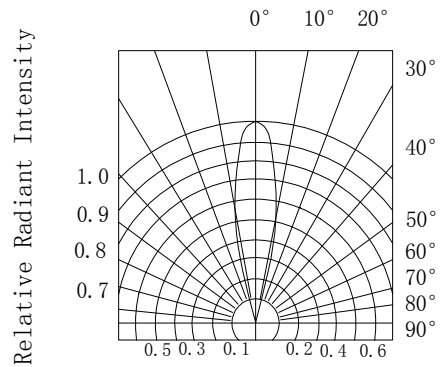


FIG. 6 RADIATION DIAGRAM