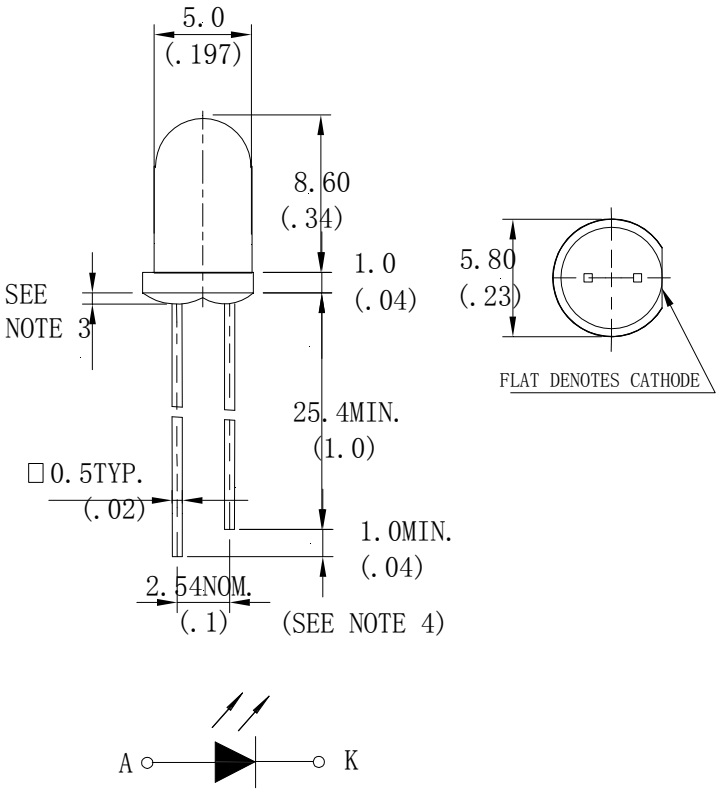
## Features

· 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 ±0.25mm (.01″) unless otherwise noted.
3. Specifications are subject to change without notice

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**Selection Guide**

| Part No | Lens Type | Dice | Emitted Color |
|---|---|---|---|
| FDI-503E160-ZC1 | Water Clear | - | - |

**Electrical / Optical Characteristics At Ta=25℃**

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Test Condition |
|---|---|---|---|---|---|---|
| 2θ1/2 | Viewing Angle | | 60 | | deg | IF=20mA |
| 入 Peak | Peak Emission Wavelength | | 940 | | nm | IF=20mA |
| △入 | Spectral Line Half-Width | | 50 | | nm | IF=20mA |
| VF | Forward Voltage | | 1.2 | 1.6 | V | IF=20mA |
| IR | Reverse Current | | | 10 | uA | VR 5V |
| IE | Radiant Intensity | 2 | 7 | | mw/sr | IF=20mA |

**Absolute Maximum Ratings At Ta=25℃**

| 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 | -40℃ to + 85℃ | |
| Storage Temperature Range | -55℃ to + 100℃ | |
| Soldering Condition | 260℃ For 5 Seconds | |

Note:

1. 1/10 Duty Cycle, 10μs PulseWidth

## Electrical Optical Characteristics Curves At Ta=25℃

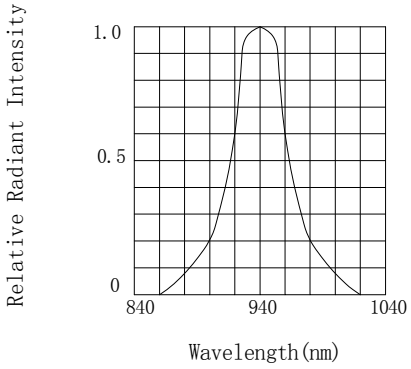


FIG. 1 SPECTRAL DISTRIBUTION

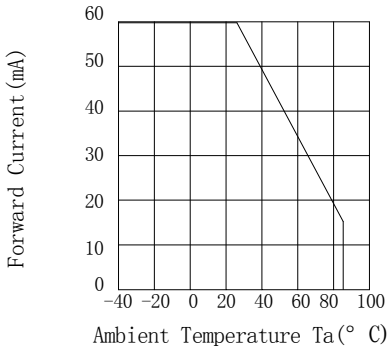


FIG. 2 FORWARD CURRENT VS. AMBIENT TEMPERATURE.

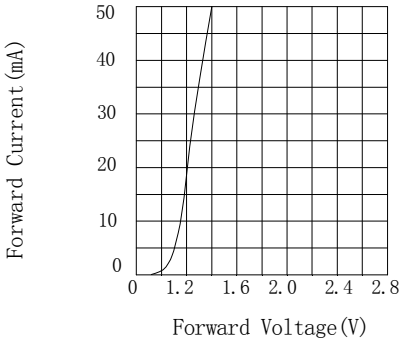


FIG. 3 FORWARD CURRENT VS. FORWARD VOLTAGE

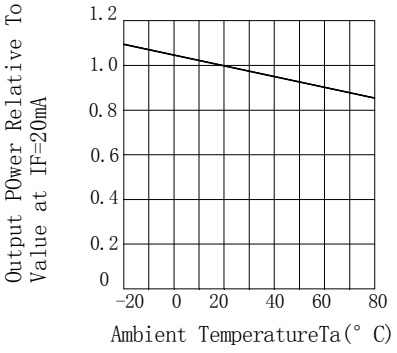


FIG. 4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

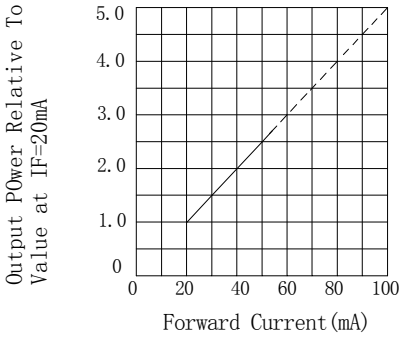


FIG. 5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

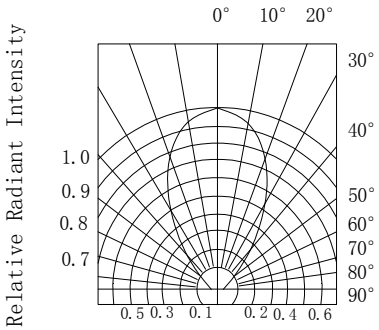


FIG. 6 RADIATION DIAGRAM