

# INFRARED EMITTING DIODE

## 1.ELEMENT APPEARANCE

| Model No.   | Material       | Lighting Color | Resin Color |
|-------------|----------------|----------------|-------------|
| RT3-13E4ETS | AlGaAs/ AlGaAs | Non-Visible    | Water Clear |

## 2.ELECTRO-OPTICAL CHARACTERISTICS AT Ta=25°C

| Characteristic            | Symbol                         | Condition          | Min. | Typ.  | Max. | Unit  |
|---------------------------|--------------------------------|--------------------|------|-------|------|-------|
| Radiant intensity         | I <sub>e</sub>                 | IF=50mA            | 25   | 40    |      | mW/Sr |
| Forward voltage           | V <sub>F</sub>                 | IF=100mA           |      | 1.6   | 2.0  | V     |
| Reverse current           | I <sub>R</sub>                 | V <sub>R</sub> =4V |      |       | 10   | μ A   |
| Peak emission wavelength  | λ <sub>p</sub>                 | IF=50mA            |      | 850   |      | nm    |
| Spectral band width @ 50% | Δλ                             | IF=50mA            |      | 42    |      | nm    |
| Rise time/Fall time       | t <sub>r</sub> /t <sub>f</sub> | IF=50mA            |      | 25/15 |      | ns    |
| Viewing angle             | 2θ 1/2                         | IF=50mA            |      | 35    |      | deg.  |

| VF(IF100mA) | I <sub>e</sub> ( IF=50mA) |        |        |
|-------------|---------------------------|--------|--------|
|             | 25~38                     | 38~57  | 57~86  |
| 1.4~1.5     | BIN:2A                    | BIN:3A | BIN:4A |
| 1.5~1.6     | BIN:2B                    | BIN:3B | BIN:4B |
| 1.6~1.63    | BIN:2C                    | BIN:3C | BIN:4C |

※Power 誤差値±15% mcd 、VF 誤差値±0.05V、波長誤差値±1nm

## 3.DIMENSIONS UNIT :m/m

1.CATHODE  
2.ANODE

