

**Features**

- 2.0 x 1.25 mm (0805) footprint
- High intensity
- Wide viewing angle
- Flat white diffused epoxy lens
- Suitable for reflow soldering
- Supplied on 178 mm dia reel
- Quantity per reel 3000 pieces

**Electro / Optical Characteristics****I<sub>F</sub> = 20 mA    T<sub>a</sub> = 25° C**

| Part Number | Emitting Colour | Epoxy Type | Die Material | Chromaticity |      | Forward Voltage V <sub>F</sub> |      | Luminous intensity I <sub>V</sub> |         | Viewing ∠<br>2θ½ |
|-------------|-----------------|------------|--------------|--------------|------|--------------------------------|------|-----------------------------------|---------|------------------|
|             |                 |            |              | x            | y    | typical                        | max  | min                               | typical |                  |
| FE-170W     | White           | WD         | InGaN        | 0.31         | 0.28 | 3.50                           | 4.00 | -                                 | 200     | 140              |
| Units       |                 |            |              | typical      |      | V                              |      | mcd                               |         | deg              |

Viewing angle  
I<sub>F</sub> = 10 mA**Maximum Ratings    T<sub>a</sub> = 25° C ( Derate above 25°C )**

| Characteristic        | Condition                          | Symbol           | Rating       | Units |
|-----------------------|------------------------------------|------------------|--------------|-------|
| Pulse Forward Current | 0.1 duty cycle, 0.1 ms pulse width | I <sub>FP</sub>  | 100          | mA    |
| DC Forward Current    |                                    | I <sub>F</sub>   | 30           | mA    |
| Reverse Voltage       | I <sub>R</sub> = 10 μA             | V <sub>R</sub>   | 5            | V     |
| Power Dissipation     |                                    | P <sub>D</sub>   | 120          | mW    |
| Operating Temperature |                                    | T <sub>opr</sub> | - 20 to + 80 | °C    |
| Storage Temperature   |                                    | T <sub>stg</sub> | - 20 to + 80 | °C    |

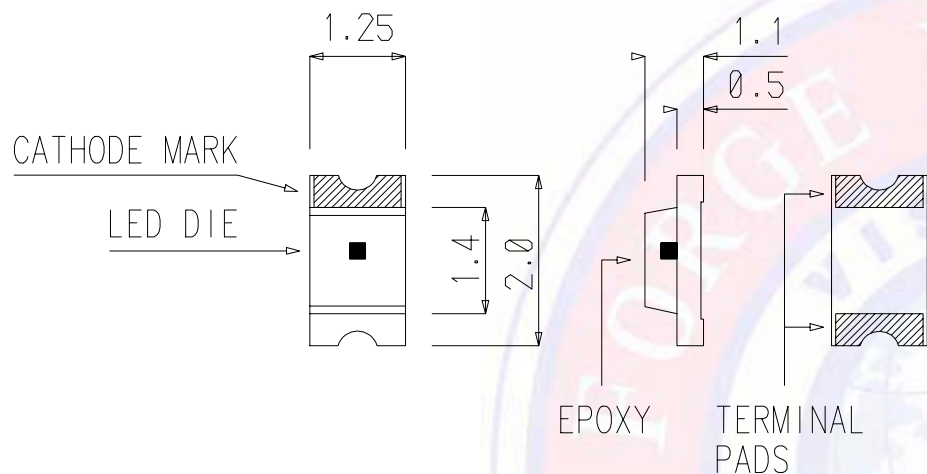
**Note**

Industry standard procedures regarding static must be observed when handling product produced with the following die material.

InGaN

It is the responsibility of the customer to verify the suitability of the product for the application.

## Package Outline

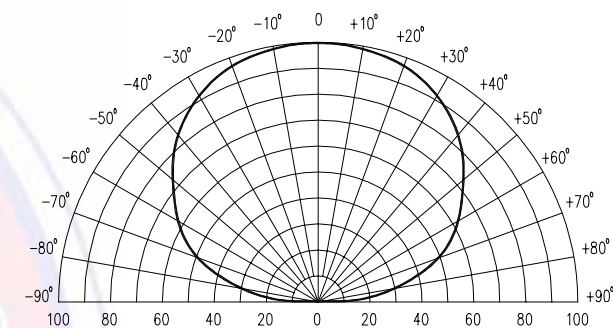


## Solder Pad Pattern

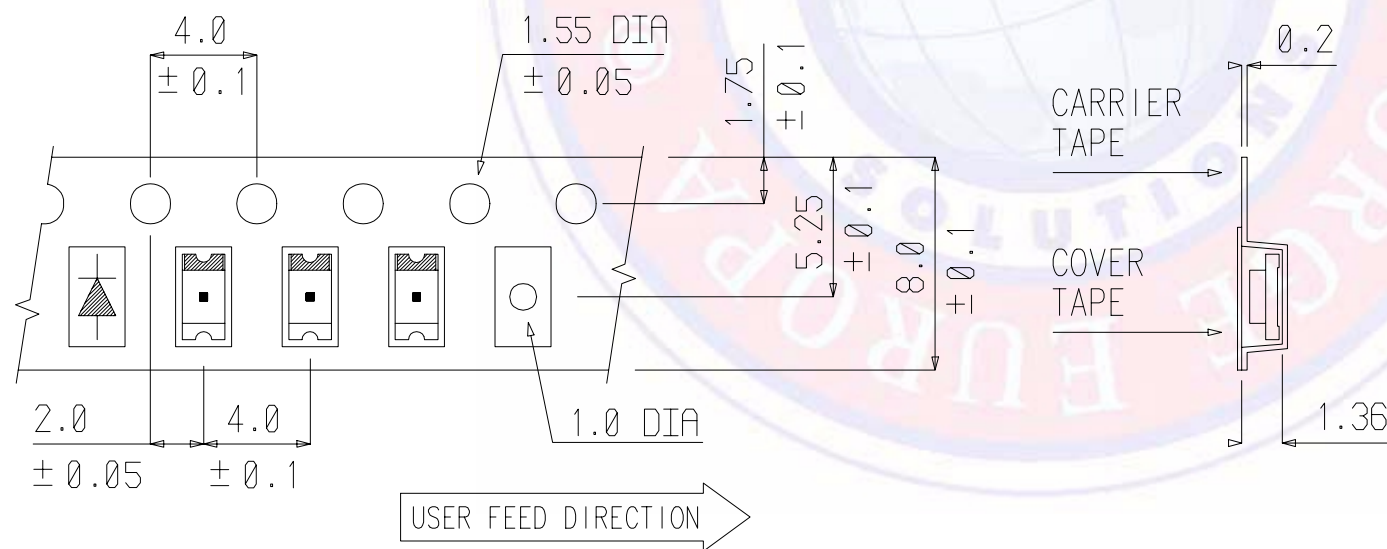


## Radiation Diagram

$$T_a = 25^\circ\text{C} \quad I_F = 10 \text{ mA}$$



Relative angular intensity



Dimensions in mm  
Tolerance  $\pm 0.1$  mm unless stated

## Tape Dimensions