# FA-150 Special Colour Range

## 150 Series Special Colour Surface Mount LEDs

**Features**

- 3.2 x 1.6 mm (1206) footprint
- High intensity
- Wide viewing angle
- Flat water clear epoxy lens
- Suitable for reflow soldering
- Supplied on 178 mm dia reel
- Quantity per reel 3000 pieces

### Electro / Optical Characteristics $I_F$ = 20 mA $T_a$ = 25°

| Part Number | Emitting Colour | Epoxy Type | Die Material | Wavelength | | Forward Voltage $V_F$ | | Luminous intensity $I_V$ | | Viewing ∠ 2θ½ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Peak $\lambda_P$ | Dominant $\lambda_d$ | typical | max | min | typical | |
| FA-150DLG | Green | WC | InGaN | 523 | 525 | 3.50 | 4.20 | - | 110 | 140 |
| FA-150DBG | Blue green | WC | InGaN | 500 | 505 | 3.50 | 4.20 | - | 110 | 140 |
| FA-150DNB | Blue | WC | InGaN | 468 | 470 | 3.50 | 4.20 | - | 40 | 140 |
| FA-150CB | Blue | WC | InGaN | 468 | 470 | 3.50 | 4.20 | - | 30 | 140 |
| FA-150SB | Blue | WC | GaN | 428 | 466 | 3.80 | 4.50 | - | 18 | 140 |
| Units | | | | nm | | V | | mcd | | deg |

### Maximum Ratings $T_a$ = 25° C ( Derate above 25° C )

| Characteristic | Condition | | Symbol | Rating | Units |
|---|---|---|---|---|---|
| Pulse Forward Current | 0.1 duty cycle 0.1 ms pulse width | Normal | $I_{FP}$ | 100 | mA |
| | | SB | $I_{FP}$ | 70 | mA |
| DC Forward Current | Normal | | $I_F$ | 20 | mA |
| | SB | | $I_F$ | 15 | mA |
| Reverse Voltage | $I_R$ = 10 µA | | $V_R$ | 5 | V |
| Power Dissipation | Normal | | $P_D$ | 84 | mW |
| | SB | | $P_D$ | 68 | mW |
| Operating Temperature | | | $T_{opr}$ | - 30 to + 80 | ° C |
| Storage Temperature | | | $T_{stg}$ | - 40 to + 85 | ° C |

**Note**

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

InGaN
GaN



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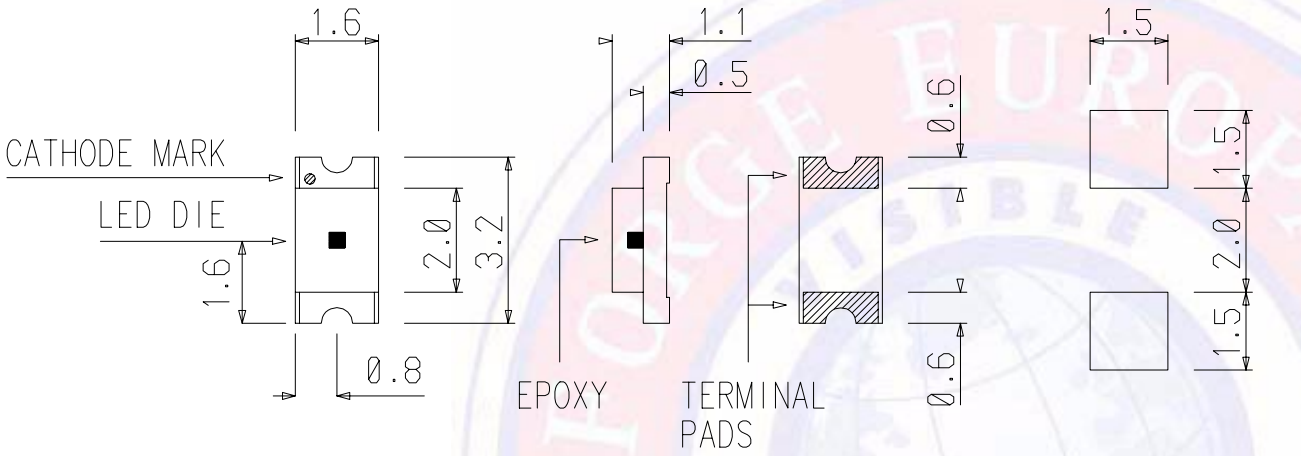
## Package Outline

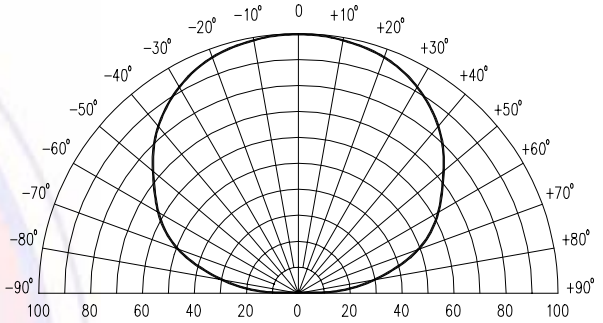



## Solder Pad Pattern

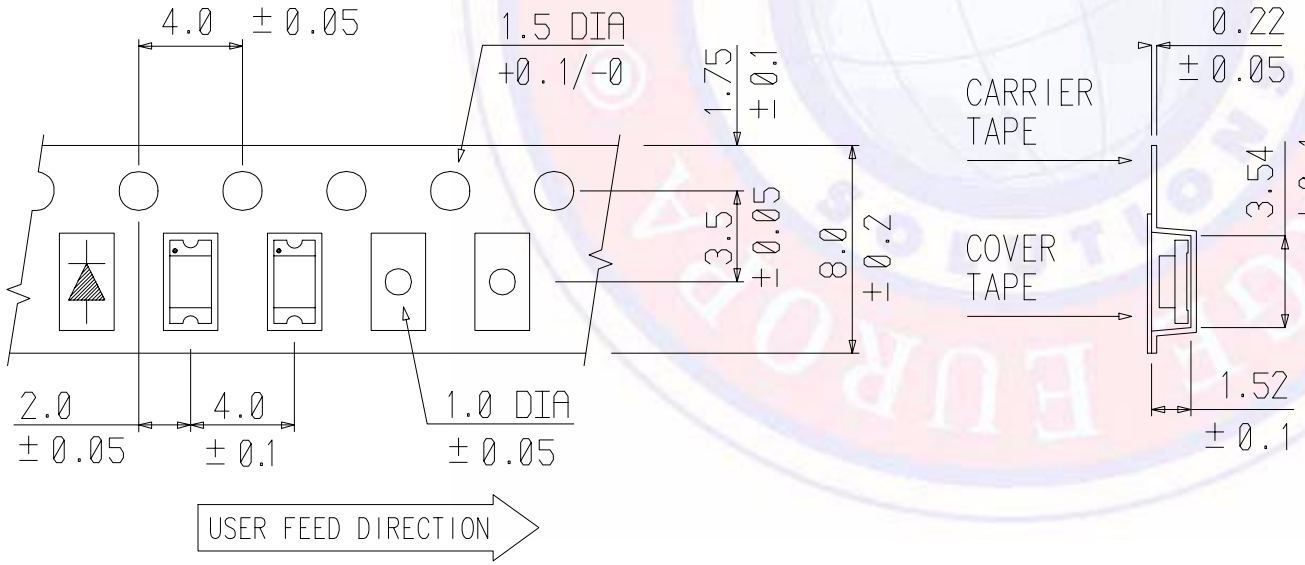



## Radiation Diagram

$T_a = 25^oC$ $I_F = 20$ mA




Relative angular intensity




## Tape Dimensions

Dimensions in mm
Tolerance ± 0.1 mm unless stated



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