

Features

- 3.2 x 1.6 mm (1206) 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** $I_F = 20 \text{ mA}$ $T_a = 25^\circ \text{ C}$

Part Number	Emitting Colour	Epoxy Type	Die Material	Chromaticity		Forward Voltage V_F		Luminous intensity I_V		Viewing $\angle$ 2 $\theta_{1/2}$
				x	y	typical	max	min	typical	
FE-150W	White	WD	InGaN	0.31	0.28	3.50	4.00	-	140	140
Units				typical		V		mcd		deg

Viewing angle
 $I_F = 10 \text{ mA}$

Maximum Ratings $T_a = 25^\circ \text{ C}$ (Derate above 25° C)

Characteristic	Condition	Symbol	Rating	Units
Pulse Forward Current	0.1 duty cycle, 0.1 ms pulse width	I_{FP}	100	mA
DC Forward Current		I_F	30	mA
Reverse Voltage	$I_R = 10 \mu\text{A}$	V_R	5	V
Power Dissipation		P_D	120	mW
Operating Temperature		T_{opr}	- 20 to + 80	$^\circ\text{C}$
Storage Temperature		T_{stg}	- 20 to + 80	$^\circ\text{C}$

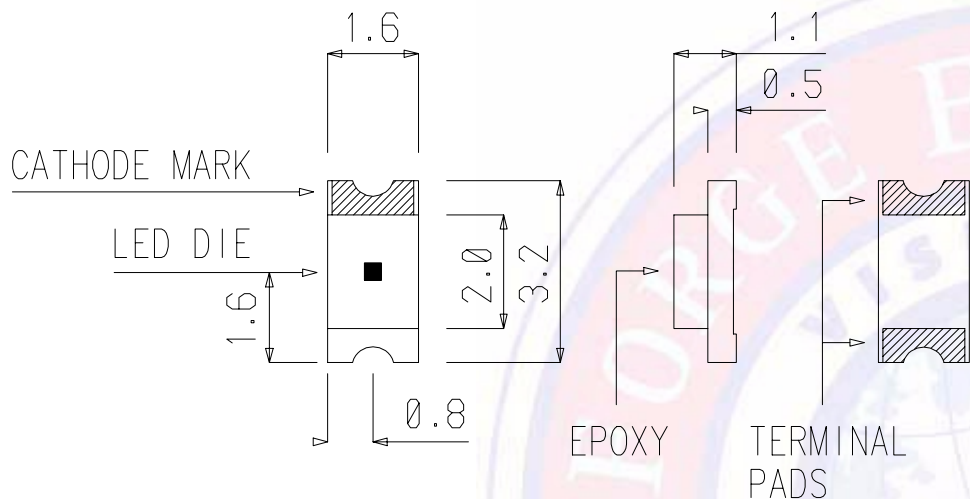
Note

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

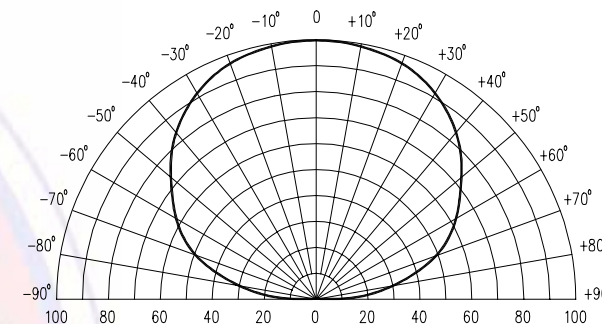


Solder Pad Pattern

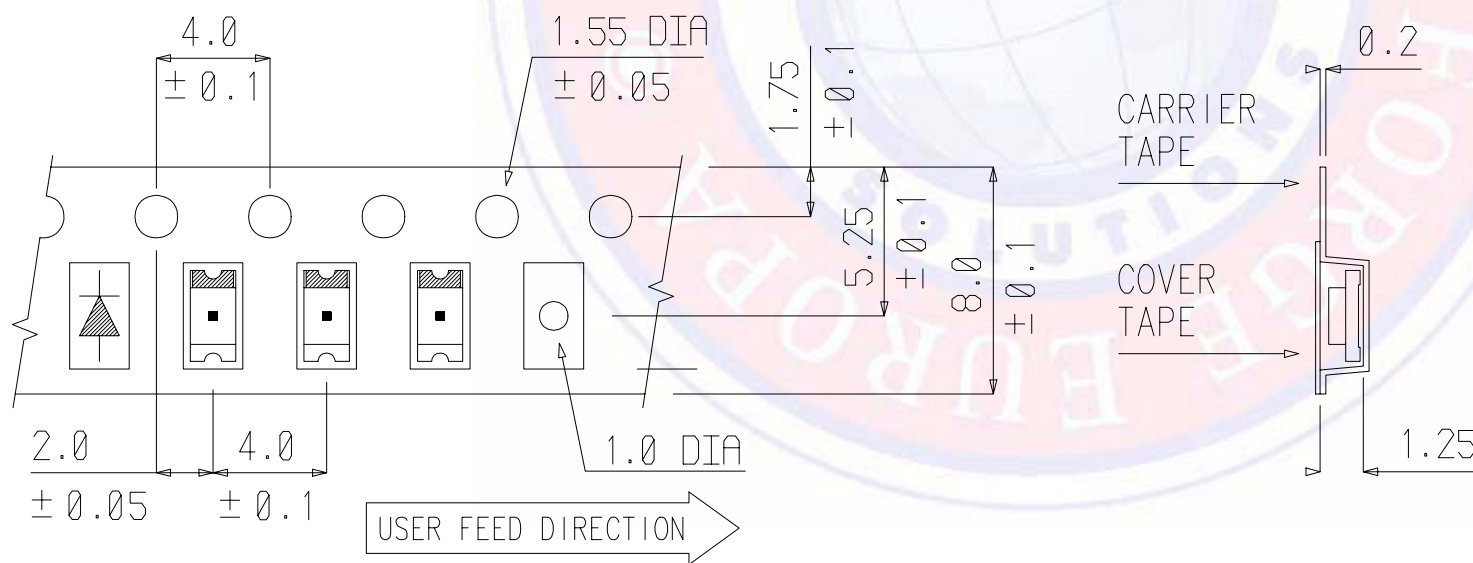


Radiation Diagram

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



Relative angular intensity



Tape Dimensions

Dimensions in mm
Tolerance ± 0.1 mm unless stated