

# Red Chip--ORT008URV

## 1. Scope:

- This specification applies to Gap/InGaAlP/GaAs LED chips.

## 2. Structure:

- Mesa Type: smooth surface.
- Electrodes:  
P (Anode) Side: gold alloy.  
N (Cathode) Side: gold alloy.

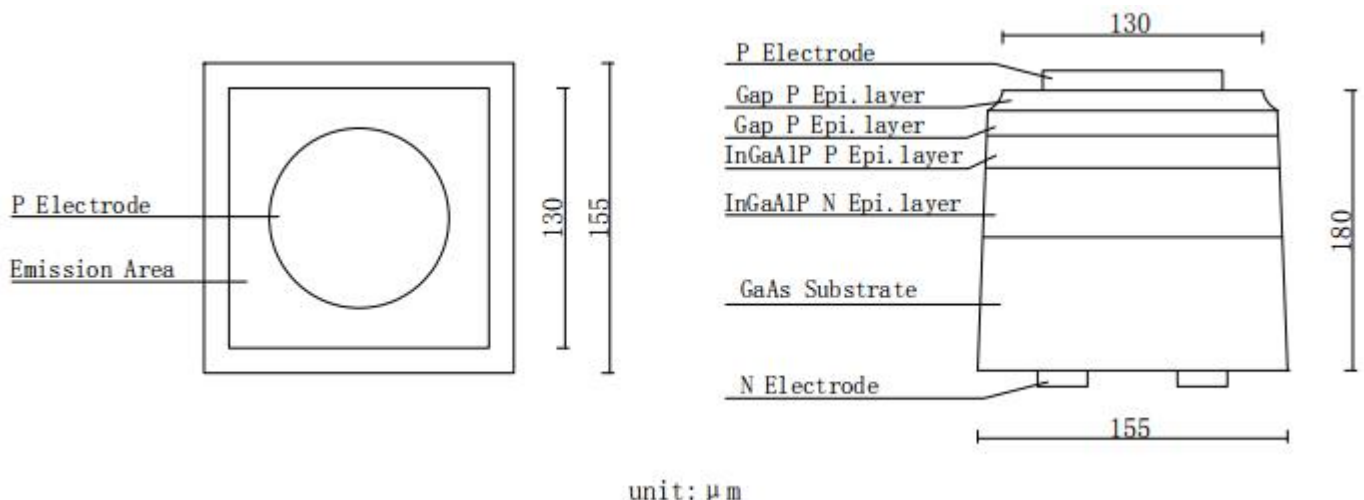
## 3. Size:

- Top Size:  $130\mu\text{m}\times 130\mu\text{m} \pm 20\mu\text{m}$ ; Bottom Size:  $155\mu\text{m}\times 155\mu\text{m} \pm 20\mu\text{m}$
- Chip Height:  $180\mu\text{m} \pm 30\mu\text{m}$
- Pad Size:  $90\mu\text{m} \pm 10\mu\text{m}$
- Pattern Drawing: fig.1.

## 4. Electro-Optical Characteristics:

( $T_a=+25^\circ\text{C}$ )

Parameter	Symbol	Unit	Min	Typ	Max	Test Condition
Forward voltage	$V_F$	V		2.15	2.40	$I_F=20\text{mA}$
Reverse current	$I_R$	$\mu\text{A}$			30	$V_R=5\text{V}$
Dominant wavelength	$\lambda_d$	nm	620		630	$I_F=20\text{mA}$
Luminous Intensity	$I_v$	mcd	25	55		$I_F=20\text{mA}$



unit:  $\mu\text{m}$

fig.1

## 5. Packing and Labeling:

- Packing: Sheet Type
- Each pellet is mounted on an adhesive sheet with wire-bonded electrode side up.
- Labeling (标签): Each lot has a label sheet, writing Type, Lot No, Pcs, Avg  $P_o$ ,  $V_F$ ,  $W_{lp}$  and quantity of good chips.



## 6. Application Notes:

- All data are measured by Orient' s tester on bare chips within 98% of the nominal value.
- Measurement error for dominant wavelength and peak wavelength is  $\pm 5\text{nm}$