

Red Chip--ORT010SRK

1. Scope:

- This specification applies to GaAlAs/GaAs red LED chips.

2. Structure:

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

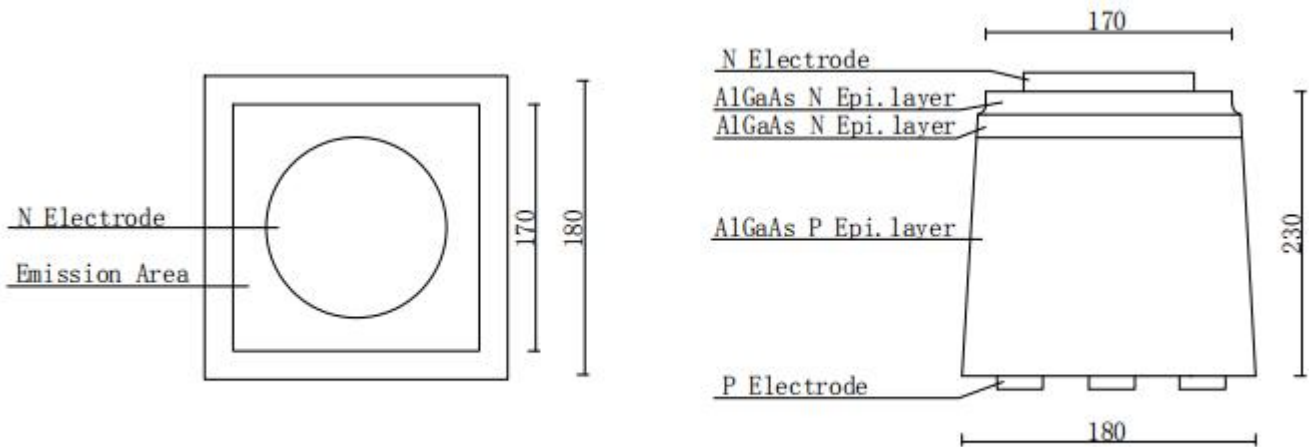
3. Size:

- Top Size: $170\mu\text{m}\times 170\mu\text{m} \pm 30\mu\text{m}$; Bottom Size: $180\mu\text{m}\times 180\mu\text{m} \pm 30\mu\text{m}$
- Chip Height: $230\mu\text{m} \pm 20\mu\text{m}$
- Pad Size: $104\mu\text{m} \pm 10\mu\text{m}$
- 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		1.95	2.1	$I_F=20\text{mA}$
Reverse current	I_R	μA			10	$V_R=5\text{V}$
Dominant wavelength	WLD	nm	640		650	$I_F=20\text{mA}$
Luminous Intensity	I_v	mcd	8		13	$I_F=20\text{mA}$



unit: μm

fig.1

5. Packing and Labeling:

- Packing: Sheet Type
- Each pellet is mounted on an adhesive sheet with wire-bonded electrode side up.
- Labeling: 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 $\pm 5\text{nm}$