

# **LG-245IRUR2C-677J**

## **DATA SHEET**

SPEC.NO. : SZ19121801  
DATE : 2019/12/18  
REV. : A/0



### Model No. List

Our Photo Optic Components line includes both emitter and detector assemblies. The emitter series include one Red LED at 660nm and an accompanying Infrared LED at either 905nm or 940nm. We offer three choices of packaging: clear epoxy molded lead frame and leadless ceramic or COB. You may use the pairing table below to conveniently match your needs to our offering.

|     |       |       |
|-----|-------|-------|
|     | 660nm |       |
|     | 905nm | 940nm |
| PCB | COB   |       |

| Name    | Model             | RED | IR1    | IR2 | Package |
|---------|-------------------|-----|--------|-----|---------|
| 660/905 | LG-245IRUR2C-677J | 660 | 905 nm | N/A | 2-Pin,  |

### Absolute Maximum Ratings at TA=25

( 25 )

| Parameter            | Symbol   | Max. | Unit | Note  |
|----------------------|----------|------|------|---|
| Power Dissipation    | $P_d$    | 60   | mW   | ---   |
| Forward Current      | $I_F$    | 20   | mA   | ---   |
| Peak Forward Current | $I_{FP}$ | 100  | mA   | 1/10 Duty cycle, 0.1ms pulse width<br>(1/10 , 0.1ms ) |
| Reverse Voltage      | $V_R$    | 5    | V    | ---   |

## Electrical / Optical Characteristics at TA=25

(25 / )

| Parameter                | Symbol         | Min. | Typ. | Max. | Units | Test Conditions       |
|--------------------------|----------------|------|------|------|-------|-----------------------|
|                          |                |      |      |      | ( )   | ( )                   |
| Forward Voltage          | V <sub>F</sub> | --   | 1.35 | 1.50 | V     | I <sub>F</sub> =20mA  |
| Peak Wavelength          | λ              | 886  | 895  | 906  | nm    | I <sub>F</sub> =20mA  |
| Spectral Line Half Width |                | --   | 50   | --   | nm    | I <sub>F</sub> =100mA |
| Radiant Power            | P <sub>o</sub> | 0.8  | 1.7  | --   | mW    | I <sub>F</sub> =20mA  |
| Reverse Current          | I <sub>R</sub> | --   | --   | 10   | μA    | V <sub>R</sub> =5V    |
| Optical Rise Time        | T <sub>R</sub> | --   | 600  | --   | ns    | I <sub>F</sub> =50mA  |
| Optical Fall Time        | T <sub>F</sub> | --   | 300  | --   | ns    | I <sub>F</sub> =50mA  |

Dimension:

- Notes:** 1.All dimensions are in millimeters  
2.Tolerances unless dimensions  $\pm 0.1\text{mm}$