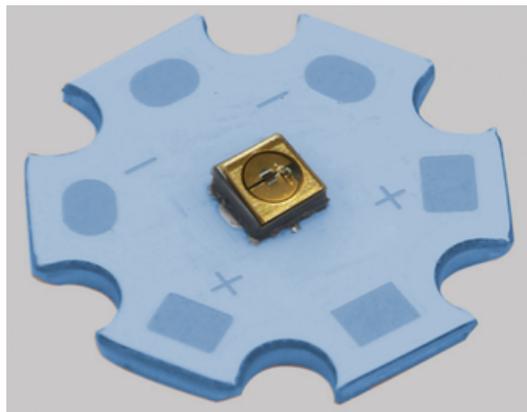
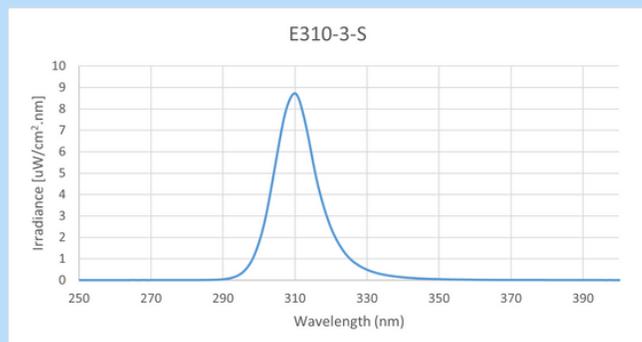


# E310-3-S (SOLDERED TO STAR BOARD)



## SPECIFICATIONS

- **Definition:** E310-3-S (soldered to star board)
- **Package:** Ceramic SMD3535
- **Peak Wavelength:** 310 nm
- **Radiant Flux:** 2.0 – 4.0 mW
- **Forward Voltage:** 5.0 - 8.0 V
- **Spectrum Half Width:** 9-14 nm
- **View Angle:** 120°
- **Optical Output Power Grade at 6.5V:** 20mA-1.5mW, 30mA-2.5mW, 40mA-3.5mW Constant Current
- **Rating:** T=25°C, IF=40mA
- **Life Hours:** 10,000



Distance [mm]	Irradiance [ $\mu\text{W}/\text{cm}^2$ ]	Irradiance [ $\text{mW}/\text{cm}^2$ ]
25	133.082	0.133082
50	33.439	0.033439
100	8.2966	0.0082966
200	2.02359	0.00202359
Measurement condition: 7V, 50mA		

## NOTES FOR E310-3-S

1. Optical output power's measurement tolerance:  $\pm 10\%$
2. Voltage's measurement tolerance:  $\pm 0.1\text{V}$
3. Dominant wavelength's measurement tolerance:  $\pm 1\text{nm}$
4. Pulse Operation (1 KHZ; Duty Cycle: 5%); Maximum operating current: 100mA

# INSTALLATION AND HANDLING

1. Do not touch the LED, contact will deposit oils that effect the normal operation/life.
2. Power: Reversing polarity may damage the device, confirm the positive and negative,
3. Strictly operate in accordance with electrical parameters, higher voltage will cause damage/degradation.
4. Avoid touching the LED with bare hands. Use anti static gloves or finger cots when handling LEDs.
5. Working surface should be clean, and well grounded. Include proper anti static protection.
6. Optical Hazard Risk: Avoid exposure to skin and eyes.
7. Heat Sink Required: Use a 1.6mm thick 20 mm<sup>2</sup> copper based heat sink or better.
8. Power supply is not included.

**Storage:** LEDs should be kept at 10 to 50 °C and 30 to 65% RH (Relative Humidity).  
**Hermetic sealing is recommended, reseal after opening to prevent oxidation.**