E275-3-S (SOLDERED TO STAR BOARD)

SPECIFICATIONS

- Definition: E275-3-S (soldered to star board)
- Package: SMD 3535
- Peak: Wavelength: 270-280 nm
- Radiant Flux: 3-6 mW
- Forward Voltage: 5.0 - 7.0 V
- Spectrum Half Width: 10-12 nm
- View Angle: 130
- Optical Output Power Grade at 6V: 20mA-3mW, 30mA-4mW, 50mA-6mW Constant Current
- Rating: T=25°C, IF=40mA
- Life Hours: 10,000

NOTES FOR E275-3-S

a. Do not touch the LED, contact will deposit oils that effect the normal operation/life.
b. Power: Reversing polarity may damage the device, confirm the positive and negative,
c. Strictly operate in accordance with electrical parameters, higher voltage will cause damage/degradation.
d. Optical Hazard Risk: Avoid exposure to skin and eyes.
e. Heat Sink Required: Use a 1.6 thick 20 mm copper based heat sink or better.
f. Power supply is not included.
3. E275-3-S star board mounted led
   Peak Wavelength: 270-280nm
   Radiant Flux: 3-6 mW
   Forward Voltage: 5-7V
   Spectrum Half Width: 10-12 nm, 14 nm Max

4. View Angle: 120 - 130°
   Optical Output Power Grade at 6V/Constant current: 20mA -3mW, 30mA- 4 mW, 50mA- 6mW
   Optical power +/- 10%
   Voltage measurement tolerance: +/- 0.1V
   Pulsed Operation: 1 KHz cycle- 5%, Max current 300mA

5. Typical Curves:

![Typical Spectrum](image1)
![Relative Radiant Flux vs Forward Current](image2)
![Forward Current vs Voltage](image3)
![Typical Emission Distribution Curve](image4)

6. Installation and Handling
   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.

   Handling:
   Avoid touching the LED with bare hands. Use anti static gloves or finger cots when handling LEDs.
   Working surface should be clean, and well grounded. Include proper anti static protection.