

PIN-Photodiode THD

37°

CSR3815TGG

- * PIN-Photodiode for general purpose Based on Silicon- Photodiode
- * Short conic package
- * typ Response Angle of typ. 37°
- * Daylight filtered black housing
- * Mechanical matched with CQR65 LED-serie



Optical and Electrical Characteristics @Tambient =25°C

| Symbol | Parameter | MIN | Тур | MAX | TINU | Test conditions |
|------------------------|--------------------------------|-----|-------|------|------|--|
| I _{Light} | Reverse Light Current | 30 | 40 | | μA | Ee = 1mW/cm² @940nm ; Vr=10V |
| I _{Dark} | Reverse Dark Current | | | 8 | nA | Ee = 0 mW/cm ² ; Vr=10V |
| I _{short} | Short Circuit Current | | 7 | | μΑ | Ee = 1mW/cm ² @940nm |
| V _{RM} | Reverse Voltage | / | 7 | 50 | V | |
| V _{forward} | Reverse Breakdown Voltage | 30 | // // | | V | IR = 100 μA ; Ee = 0mW/cm² |
| V oc | Open Circut Voltage | | 440 | | mV | Ee = 5mW/cm ² @900nm |
| λ _{peak} | Wavelength of Peak Sensitivity | | 900 | | nm | max. sensitivity |
| λ 0,5 | Range of Spectral Bandwidth | 720 | | 1100 | nm | I = 10%, typical |
| t _f | Fall Time | | 10 | | μS | Vce = 5V ; Ic = 1mA ; RL = 1K Ω |
| t _r | Rise Time | | 10 | | μS | Vce = 5V ; Ic = 1mA ; RL = 1K Ω |
| Α | Active Array | | 0,75 | | mm² | |
| 2Ф _{0,5} | Full Response Angle | 34 | 37 | 39 | deg. | ΦE = 50% |
| C J | Junction Capacity | | 3 | 8 | pF | VR = 5V ; f = 1Mhz; Ee = 0mW/cm² |
| T _{Operating} | Operating Temperature | -40 | | 85 | °C | |
| T _{Storage} | Storage Temperature | -40 | | 85 | °C | |
| T _{Soldering} | Soldering Temperature | | | 260 | °C | Iron Soldering; 5mm from case @ max 5 sec. |
| R _{thJA} | Thermal Resistance | | 450 | | K/W | |
| P tot | Total Power Dissipation | | | 100 | mW | Tamb 25°C |

Order informations:

CSR3815TGG Bulk

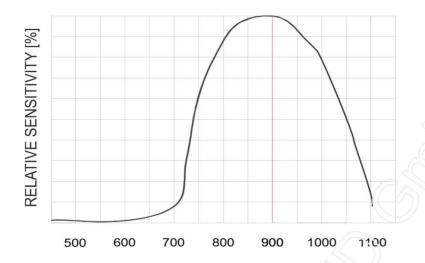
CSR3815TGG-TR Tape & Reel (1500pcs/reel) on request

CSR3815TGG-TC Bended according to customer specifications (on request)



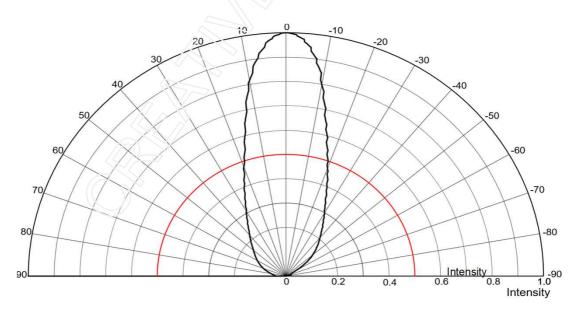
Relative Spectral Sensitivity

@ T_{ambient} = 25°C



Relative Radiation Sensitivity

@ T_{ambient} = 25°C



Pls. Contact us for more technical detail information!

CREATIVE LED GMBH reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact us for latest device specification sheets before using.



Mechanical Drawing

