



Ring Light

# LDR-Si50A



| Operating Temperature after 30 minutes | Drawing |
|--|---------|
|  |         |

| Mechanical Data (TYP)     |                              |
|---------------------------|------------------------------|
| Casing Material           | Aluminum                     |
| Storage Temperature Range | Temp 0-35°C, Humidity 20-85% |
| Weight                    | Approx. 50g                  |

| Optical Data (TYP)           | R     | R24 | W              | G     | B     |
|------------------------------|-------|-----|----------------|-------|-------|
| Illumination (number of LED) | 36    | -   | 36             |       |       |
| Led Color                    | RED   |     | WHITE          | GREEN | BLUE  |
| Wavelength                   | 635nm |     | xy=(0.31,0.32) | 525nm | 470nm |
| Led Package                  | PLCC  |     | SMD            |       |       |

| Electrical Data (TYP)          | R  | R24 | W/G/B  |
|--------------------------------|--|-----|--|
| Operating Voltage              | 12V ± 2%   | -   | 24V ± 2%   |
| Reverse Battery Protection     | YES  | -   | YES  |
| Supply Ripple Voltage          | ≤ Vs ± 5%  | -   | ≤ Vs ± 5%  |
| Current Consumption            | 0.36A  | -   | 0.12A  |
| Power Consumption              | 4.32W  | -   | 2.88W  |
| Trigger Voltage                | Continuous=12V<br>Pulsing 12-24V<br>0-10% Duty Cycle | -   | Continuous= 24V<br>Pulsing 48V<br>0-10% Duty Cycle |
| Operating after 30 minutes     | Approx. 43°C   |     | Approx. 50°C                                       |
| Additional Cooling Method      | Attached to large machine part                       |     |  |
| Life span in continuous mode   | 20,000 hours (drop to 50% intensity) at 25°C         |     |  |
| Life span in strobe light mode | Est. >50,000 hours (drop to 50% intensity) at 25°C   |     |  |
| Connection                     | JST SMR-02V,<br>1:+,2:-                              | -   | JST SMR-03V,<br>1:+,3:-                            |
| Power Supply Selection         | PSA-12V<br>PSD-12V<br>PSD-STL-12V                    | -   | PSA-24V<br>PSD-24V<br>PSD-STL-48V                  |

| Application (TYP)            |          |
|------------------------------|----------|
| Recommended Working Distance | 20-100mm |