Jul 2024

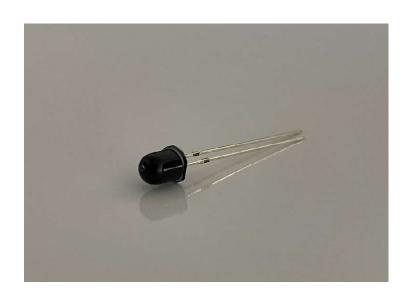
Preliminary Product Specification

PIN-Photodiode THD

82°

CSR17011PQG

- * PIN-Photodiode for general purpose Based on Silicon- Photodiode
- * High responsivity with typ. 0,55 A/W
- * Wide viewing angle PD with typ. 82°
- * Daylight filtered black housing
- * Mechanical matched with CQR65 LED-serie
- * Marking on body for Cathode side



Optical and Electrical Characteristics @Tambient =25°C

Symbol	Parameter	MIN	Тур	MAX	UNIT	Test conditions
I _{Light}	Reverse Light Current	8	11		μΑ	Ee = 0,5mW/cm² @940nm ; Vr=10V
I _{Dark}	Reverse Dark Current		5	10	nA	Ee = 0 mW/cm² ; Vr=10V
I _{short}	Short Circuit Current		11		μΑ	Ee = 0,5mW/cm² @940nm
V _{RM}	Reverse Voltage	45			V	
V _{forward}	Reverse Breakdown Voltage	45			V	IR = 100 μA ; Ee = 0mW/cm²
V oc	Open Circut Voltage		410		mV	Ee = 0,5mW/cm² @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 = 1KΩ
t _r	Rise Time		10		μS	Vce = 5V ; Ic = 1mA ; RL = 1KΩ
Α	Active Array		0,28		mm²	
2Ф _{0,5}	Full Response Angle	80	82	86	deg.	ΦE = 50%
С	Junction Capacity			4	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:

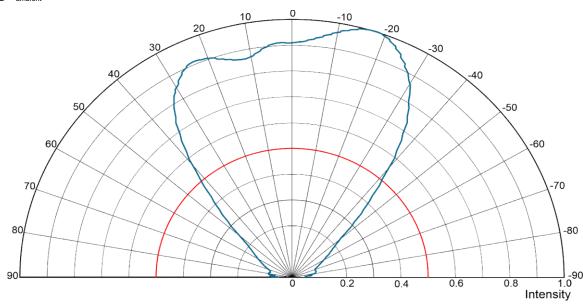
CSR17011PQG

Bulk (1000pcs./bag)

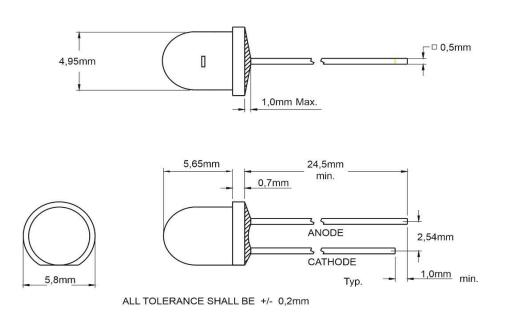


Relative Radiation Sensitivity





Mechanical Drawing



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.