

PIN-Photodiode THD

7°

CSR67851PBN

- * PIN-Photodiode for general purpose Based on Silicon- Photodiode
- * Mountable in row with 5mm distance
- * Verry narrow Response Angle of typ. 7°
- * Daylight filtered black housing
- * Mechanical matched with CQR65 LED-serie
- * SMT-Version CSS67851PBN



Optical and Electrical Characteristics @Tambient =25°C

Symbol	Parameter	MIN	Тур	MAX	UNIT	Test conditions
l _{Light}	Reverse Light Current	6	10		μΑ	Ee = 0,5mW/cm² @940nm ; Vr=10V
I _{Dark}	Reverse Dark Current		1	4	nA	Ee = 0 mW/cm² ; Vr=10V
I _{Short}	Short Circut Current		/11		μΑ	Ee = 1mW/cm² @940nm ; Vr=10V
V _R	Reverse Voltage	40			V	
V _{forward}	Reverse Breakdown Voltage	40			V	IR = 100µA ; Ee = 0mW/cm²
V oc	Open Circut Voltage		410		mV	Ee = 5mW/cm² @940nm
λ _{peak}	Wavelength of Peak Sensitivity		860		nm	max. sensitivity
λ 0,5	Range of Spectral Bandwidth	720		1100	nm	I = 10%, typical
2Ф _{0,5}	Full Response Angle	7	7		deg.	ΦE = 50%
Α	Active Array		0,0314		mm²	
t _f	Fall Time		10		μS	VR = 10V ; RL = 1KΩ
t _r	Rise Time		10		μS	VR = 10V ; RL = 1KΩ
C J	Junction Capacity		3	6	pF	VR = 5V ; f = 1Mhz; Ee = 0mW/cm ²
T _{Operating}	Operating Temperature	-25		85	°C	
T _{Storage}	Storage Temperature	-25		100	°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:

CSR67851PBN Bulk

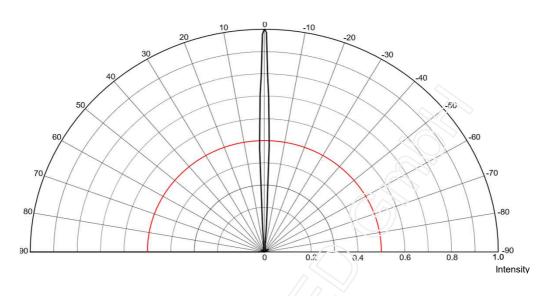
CSR67851PBN-TR Tape & Reel (1000pcs/reel) on request

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.

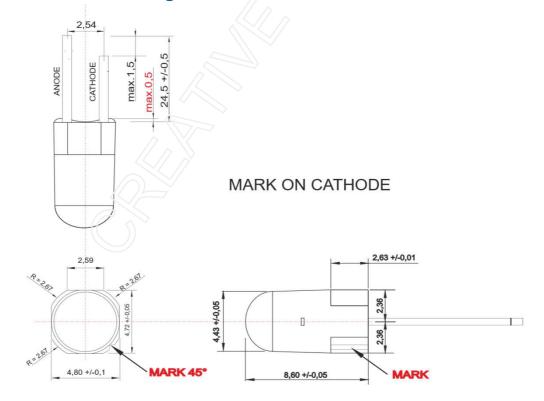


Relative Responsitivity Angle

@ T_{ambient} = 25°C



Mechanical Drawing



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