

PIN-Photodiode THD**10°****CSR67821TBK**

- * PIN-Photodiode for general purpose
Based on Silicon- Photodiode
- * Mountable in row with 5mm distance
- * **Verry narrow Response Angle of typ. 10 degree with a pointed tip**
- * Daylight filtered black housing
- * Mechanical matched with CQR65 LED-serie
- * SMT-Version CSS67871TBR

**Optical and Electrical Characteristics @Tambient =25°C**

Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
I_{Light}	Reverse Light Current	35	50		μA	$E_e = 1mW/cm^2 @940nm ; V_r=10V$
I_{Dark}	Reverse Dark Current		1	6	nA	$E_e = 0 mW/cm^2 ; V_r=10V$
I_{Short}	Short Circuit Current		11		μA	$E_e = 1mW/cm^2 @940nm ; V_r=10V$
V_R	Reverse Voltage	35			V	
$V_{forward}$	Reverse Breakdown Voltage	35			V	$I_R = 100\mu A ; E_e = 0mW/cm^2$
V_{OC}	Open Circuit Voltage		410		mV	$E_e = 5mW/cm^2 @940nm$
λ_{peak}	Wavelength of Peak Sensitivity		860		nm	max. sensitivity
$\lambda_{0,5}$	Range of Spectral Bandwidth	720		1100	nm	$I = 10\%$, typical
$2\Phi_{0,5}$	Full Response Angle		10		deg.	$\Phi E = 50\%$
A	Active Array		0,14		mm ²	
t_f	Fall Time		10		μS	$V_R = 10V ; R_L = 1K\Omega$
t_r	Rise Time		10		μS	$V_R = 10V ; R_L = 1K\Omega$
C_J	Junction Capacity		2	4	pF	$V_R = 5V ; f = 1Mhz ; E_e = 0mW/cm^2$
$T_{Operating}$	Operating Temperature	-30		85	°C	
$T_{Storage}$	Storage Temperature	-30		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	$T_{amb} 25^\circ C$

Order informations:

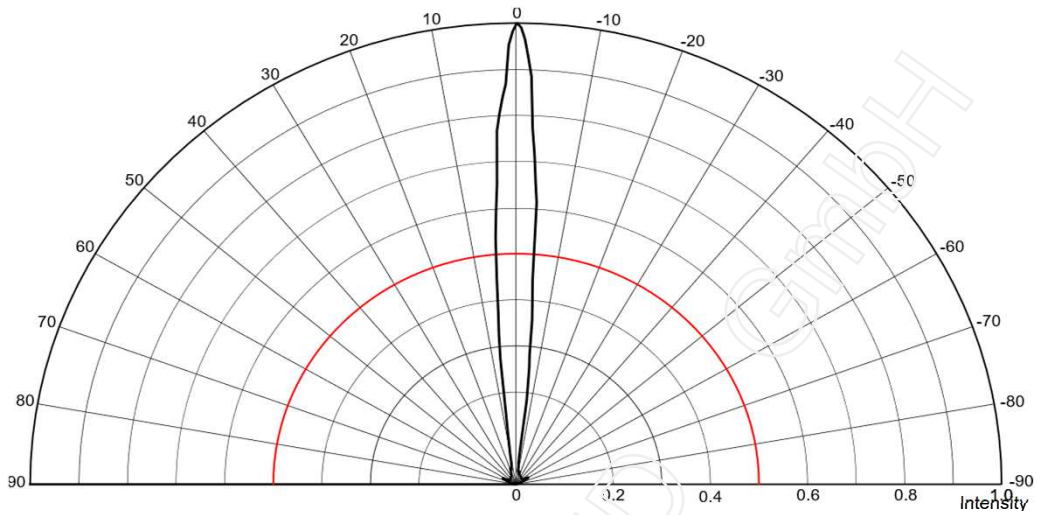
CSR67821TBK	Bulk
CSR67821TBK-TR	Tape & Reel (1500pcs/reel) on request
CSR67821TBK-TC	Bended according to customer specifications (on request)

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.

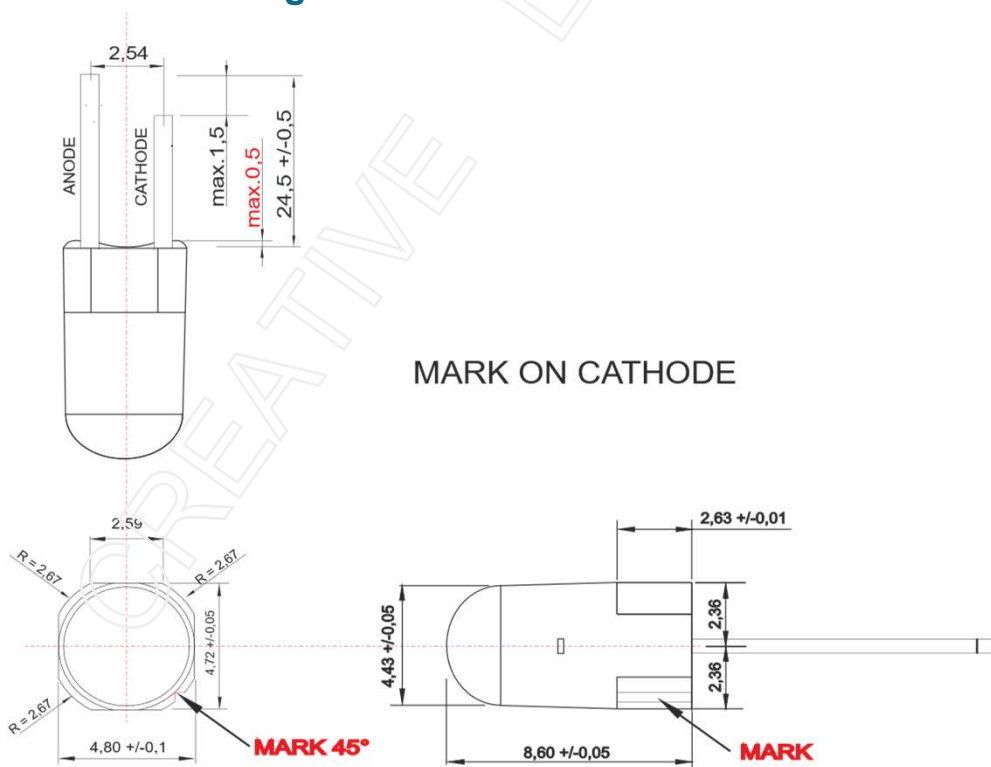
CSR67821TBK

Relative Responsivity Angle

@ T_{ambient} = 25°C



Mechanical Drawing



Pls. Contact us for more technical detail information !

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