

PIN-Photodiode THD**17°****CSR67861TCG**

- * PIN-Photodiode for general purpose
Based on Silicon- Photodiode
- * Mountable in row with 5mm distance
- * **Response Angle of typ. 17°**
- * High responsivity with typ. 0,55 A/W
- * Daylight filtered black housing
- * Mechanical matched with CQR65 LED-serie
- * Bended version on request
SMT-Version CSS67861TCG

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

Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
I_{Light}	Reverse Light Current	50	70		μA	$E_e = 1\text{mW/cm}^2 @940\text{nm}$; $V_r=10\text{V}$
I_{Dark}	Reverse Dark Current		1	10	nA	$E_e = 0\text{mW/cm}^2$; $V_r=10\text{V}$
I_{short}	Short Circuit Current		11		μA	$E_e = 1\text{mW/cm}^2 @940\text{nm}$
V_{RM}	Reverse Voltage	45			V	
V_{forward}	Reverse Breakdown Voltage	45			V	$I_R = 100\ \mu\text{A}$; $E_e = 0\text{mW/cm}^2$
V_{OC}	Open Circuit Voltage		410		mV	$E_e = 5\text{mW/cm}^2 @900\text{nm}$
λ_{peak}	Wavelength of Peak Sensitivity		860		nm	max. sensitivity
$\lambda_{0,5}$	Range of Spectral Bandwidth	720		1100	nm	$I = 10\%$, typical
t_f	Fall Time		10		μs	$V_{ce} = 5\text{V}$; $I_c = 1\text{mA}$; $R_L = 1\text{K}\Omega$
t_r	Rise Time		10		μs	$V_{ce} = 5\text{V}$; $I_c = 1\text{mA}$; $R_L = 1\text{K}\Omega$
A	Active Array		0,75		mm^2	
$2\Phi_{0,5}$	Full Response Angle	16	17	18	deg.	$\Phi_E = 50\%$
C_J	Junction Capacity		4	6	pF	$V_R = 5\text{V}$; $f = 1\text{Mhz}$; $E_e = 0\text{mW/cm}^2$
$T_{\text{Operating}}$	Operating Temperature	-40		85	$^{\circ}\text{C}$	
T_{Storage}	Storage Temperature	-40		85	$^{\circ}\text{C}$	
$T_{\text{Soldering}}$	Soldering Temperature			260	$^{\circ}\text{C}$	Iron Soldering; 5mm from case @ max 5 sec.
R_{thJA}	Thermal Resistance		450		K/W	
P_{tot}	Total Power Dissipation			100	mW	$T_{\text{amb}} 25^{\circ}\text{C}$

Order informations:

CSR67861TCG

CSR67861TCG-TR

CSR67861TCG-TC

Bulk

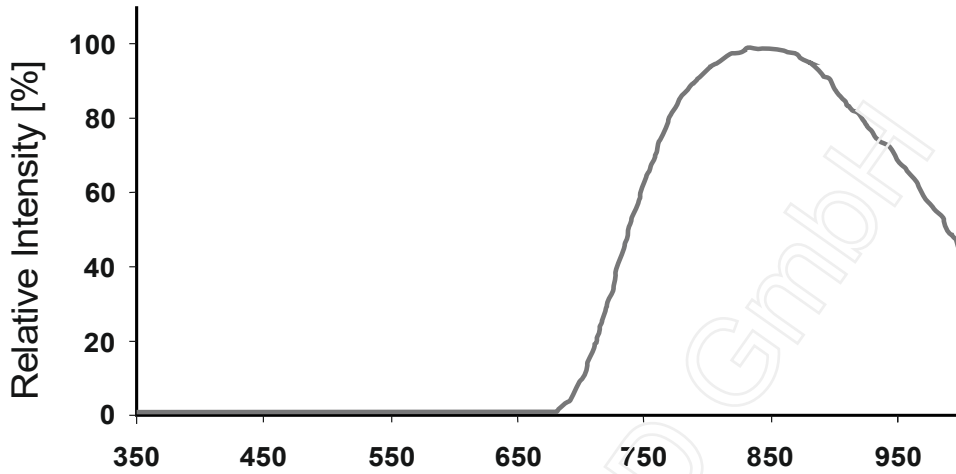
Tape & Reel (1500pcs/reel) on request

Bended according to customer specifications (on request)

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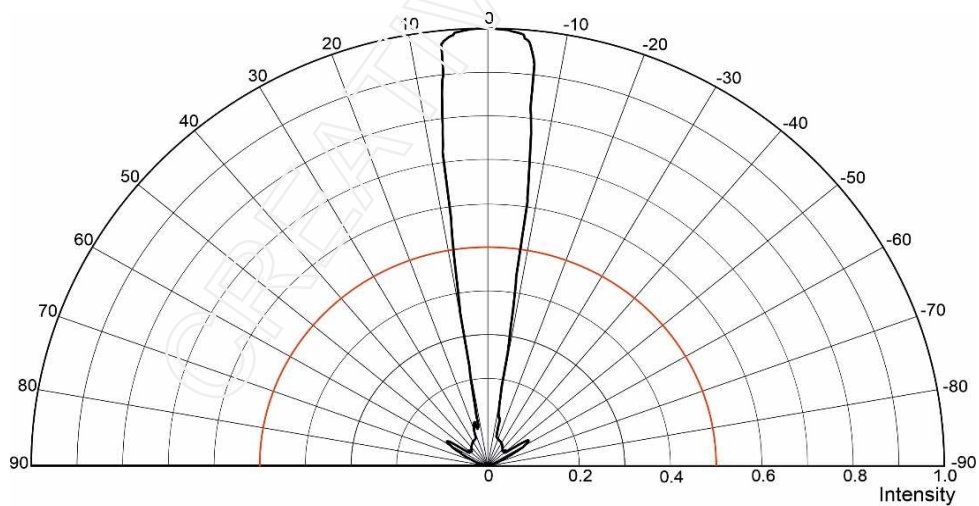
Relative Spectral Sensitivity

@ T_{ambient} = 25°C



Relative Radiation Sensitivity

@ T_{ambient} = 25°C

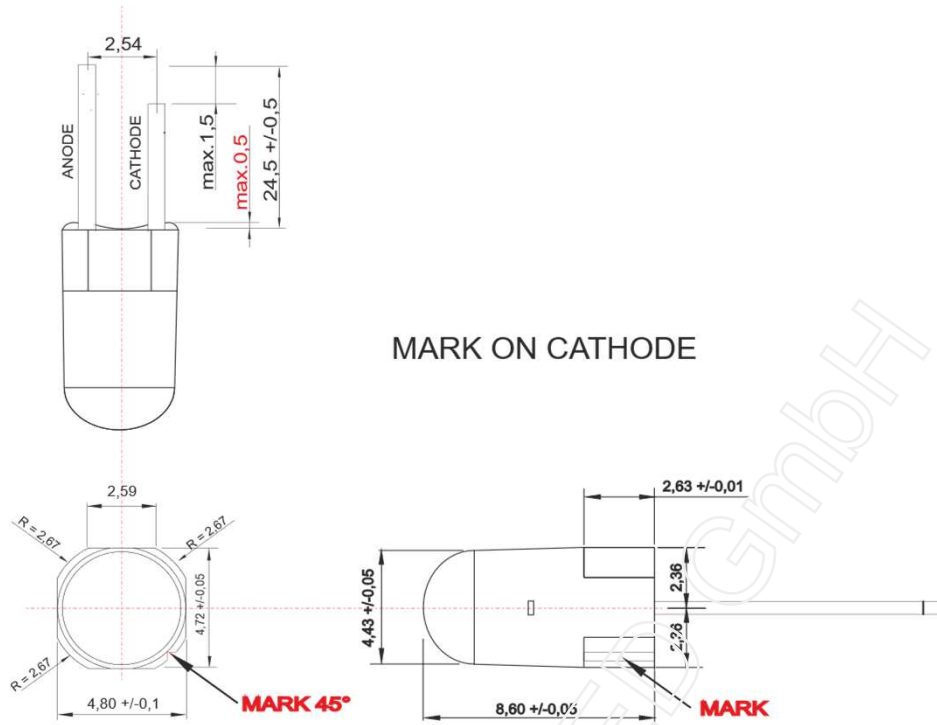


Pls. Contact us for more technical detail information !

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.

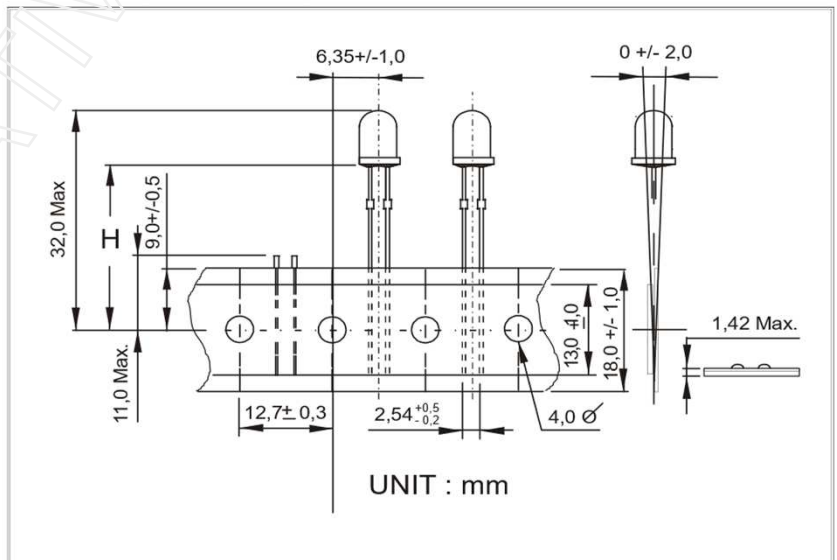
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Mechanical Drawing



Taping Specification

Option Code	H [mm] +/- 0,5mm
TA01	18,0
TA11	19,0
TA21	20,0
TA31	21,0
TA41	22,0
TA51	23,0
TA61	24,0
TA71	25,0
TA81	26,0



Unless specially requested, outgoing first lead is ANODE