

PIN-Photodiode THD**20,5°****CSR67861TDG**

- * PIN-Photodiode for general purpose
Based on Silicon- Photodiode
- * Mountable in row with 5mm distance
- * **Response Angle of typ. 20,5°**
- * High responsivity with typ. 0,55 A/W
- * Daylight filtered black housing
- * Mechanical matched with CQR65 LED-serie
- * Bended version on request
SMT-Version CSS67861TDG

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

Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
I_{Light}	Reverse Light Current	35	50		μA	$E_e = 1\text{mW/cm}^2 @940\text{nm}$; $V_r=10\text{V}$
I_{Dark}	Reverse Dark Current		2	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	19,5	20,5	21,5	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	$T_{\text{amb}} 25^{\circ}\text{C}$

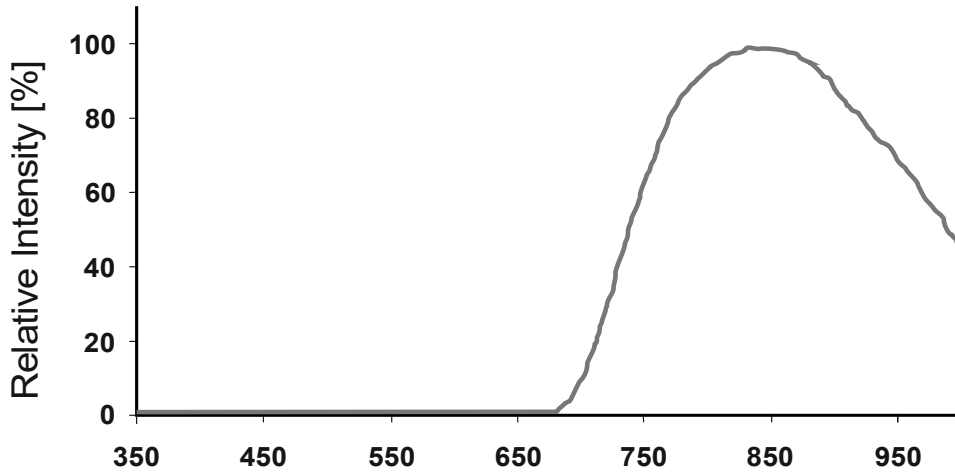
Order informations:

CSR67861TDG	Bulk
CSR67861TDG-TAXX	Taped in Ammopack (1000pcs/pack)
CSR67861TDG-TR	Tape & Reel (1500pcs/reel) on request
CSR67861TDG-TC	Bended according to customer specifications (on request)

CSR67861TDG

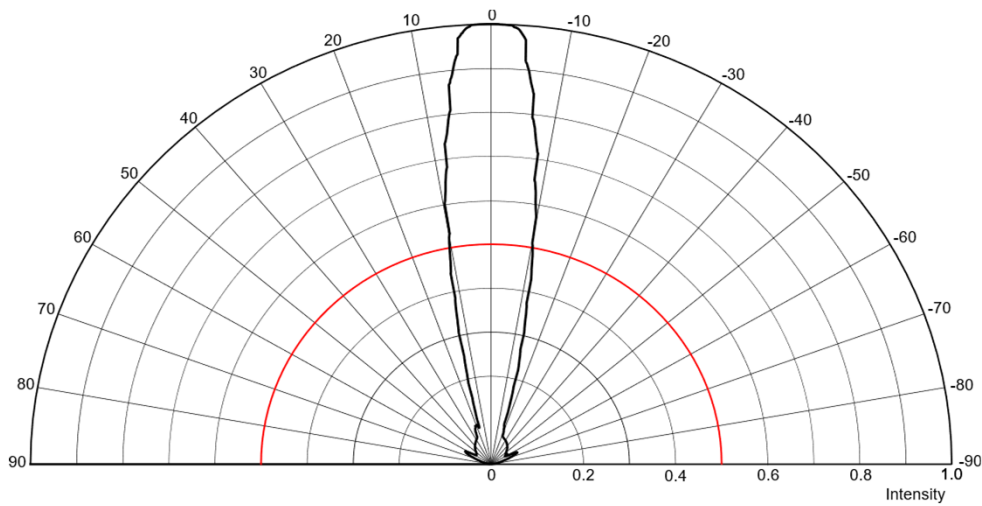
Relative Spectral Sensitivity

@ 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.

