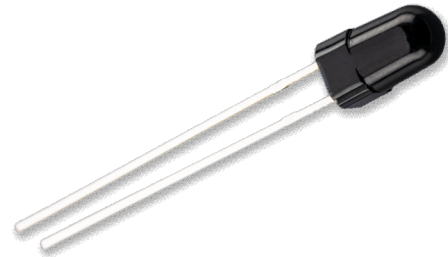


Preliminary Product Specification**CSR65012TES****22°****InGaAs Photodiode**

- * InGaAs PIN Photodiode for general purpose
- * Mountable in row with 5mm distance
- * 500µm round active area, perfect suitable for optical fiber
- * Mechanically and technically matched to the CQR66 LED series



I_{Light}	Light Current	0,9	0,95		A/W	@1310nm ; Vr=5V
I_{Light}	Light Current	0,95	1		A/W	@1550nm ; Vr=5V
I_{CEO}	Collector Dark Current			1	nA	Ee = 0 mW/cm ² ; Vr=5V
$V_{\text{(BR)ECO}}$	Emitter Collector Breakdown Voltage	5			V	Ic = 100µA ; H = 0mW/cm ²
V_{CEsat}	Collector-Emitter Saturation Voltage			0,3	V	Ib = 100µA Ic = 2mA
λ_{peak}	Wavelength of Peak Sensitivity		1550		nm	max. sensitivity
$\lambda_{0,5}$	Range of Spectral Bandwidth	850		1700	nm	I = 10%, typical
$2\Phi_{0,5}$	Full Response Angle		22	25	deg.	$\Phi E = 50\%$
β	Current Gain	900		1400		Vce = 5 V ; Ic = 2mA
A	Active Area		0,196		mm ²	
C_j	Junction Capacity			40	pF	VR = 5V ; f = 1Mhz; Ee = 0mW/cm ²
$T_{\text{Operating}}$	Operating Temperature	-40		85	°C	
T_{Storage}	Storage Temperature	-40		100	°C	
$T_{\text{Soldering}}$	Soldering Temperature			240	°C	Iron Soldering; 5mm from case @ max 5 sec.
R_{thJA}	Thermal Resistance		450		K/W	
P_{tot}	Total Power Dissipation				mW	Tamb 25°C

Order informations:

InGaAs Photodiode

CSR65012TES

Bulk (1000pcs./bag)

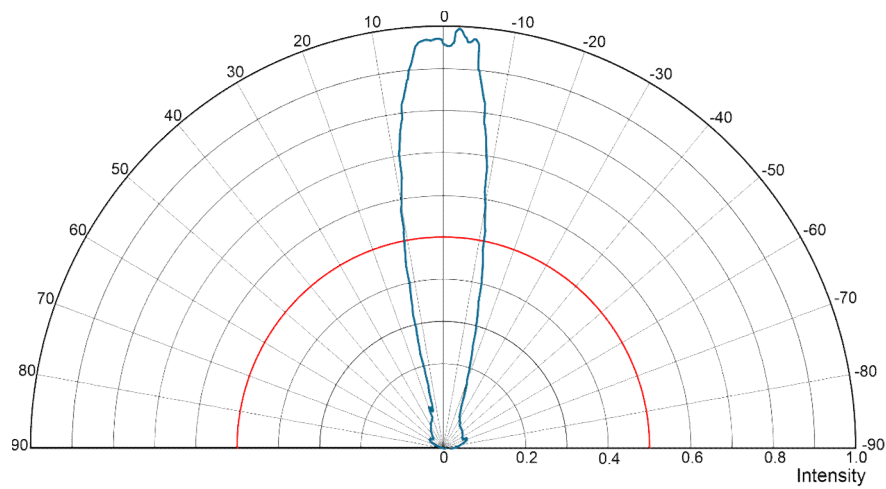
Pls. Contact us for more technical detail information !

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.

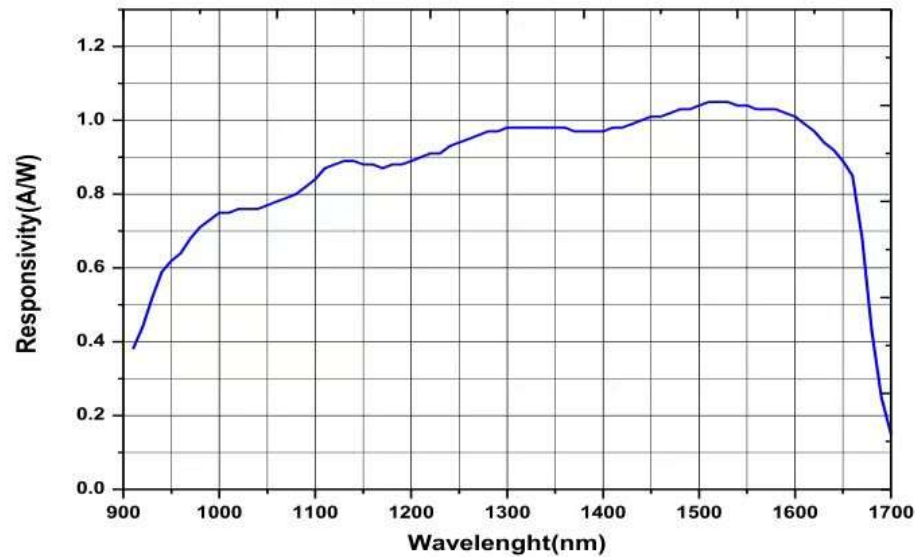
CSR65012TES

Relative Responsivity Angle:

@ T_{ambient} = 25°C



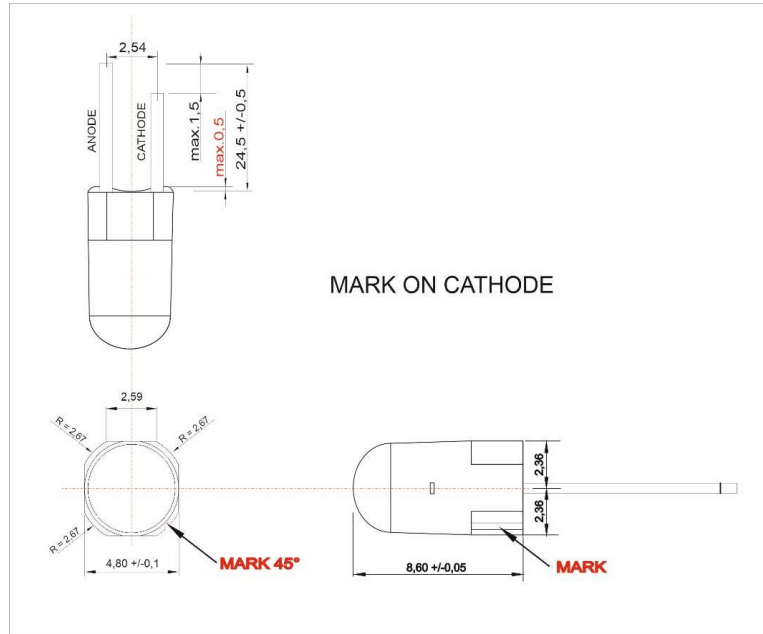
Relative Sensitivity vs. Wavelength:



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Mechanical Drawing:



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