

**Phototransistor****25°****CSM28491PEK**

- \* SMD Phototransistor with separate Base for general purpose
- \* Mountable in row with 5mm distance
- \* **Response Angle of typ. 25 degree**
- \* Daylight filtered black housing
- \* Optical and mechanical matched with CQM-x LED-serie

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

Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
$I_{Light}$	Collector Light Current	8	10		$\mu A$	$E_e = 1 mW/cm^2 @ 940nm ; V_r = 10V$
$I_{CEO}$	Collector Dark Current		1	5	nA	$E_e = 0 mW/cm^2 ; V_r = 10V$
$V_{(BR)CEO}$	Collector Emitter Breakdown Voltage	30			V	$I_c = 100 \mu A ; I_b = 0$
$V_{(BR)ECO}$	Emitter Collector Breakdown Voltage	5			V	$I_e = 100 \mu A ; I_b = 0$
$V_{CEsat}$	Collector-Emitter Saturation Voltage		0,3		V	$I_b = 100 \mu A ; I_c = 2mA$
$\lambda_{peak}$	Wavelength of Peak Sensitivity		860		nm	max. sensitivity
$\lambda_{0,5}$	Range of Spectral Bandwidth	720		1050	nm	$I = 10\%$ , typical
$t_f$	Fall Time		15		$\mu S$	$V_{ce} = 5V ; I_c = 1mA ; R_L = 1K\Omega$
$t_r$	Rise Time		15		$\mu S$	$V_{ce} = 5V ; I_c = 1mA ; R_L = 1K\Omega$
A	Active Array		0,145		mm <sup>2</sup>	
$\beta$	Current Gain	500		1000		$V_{ce} = 5V ; I_c = 2mA$
$2\Phi_{0,5}$	Full Response Angle		25		deg.	$\Phi E = 50\%$
$C_{CEO}$	Collector Emitter Capacitance		6		pF	$V_R = 5V ; f = 1Mhz ; E_e = 0mW/cm^2$
$T_{Operating}$	Operating Temperature	-30		85	°C	
$T_{Storage}$	Storage Temperature	-30		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			50	mW	$T_{amb} 25^\circ C$

**Order informations:**

CSM28491PEK-TR

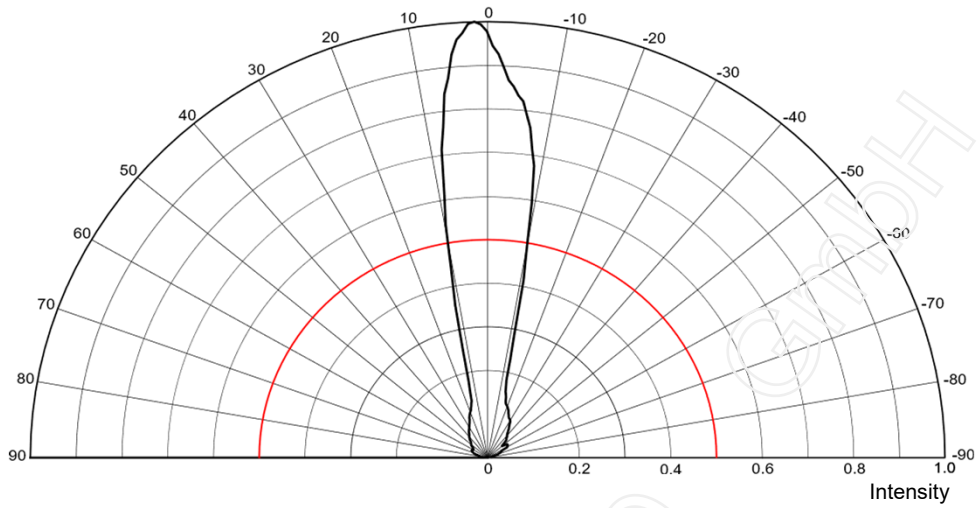
Tape &amp; Reel (1500pcs/reel)

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.

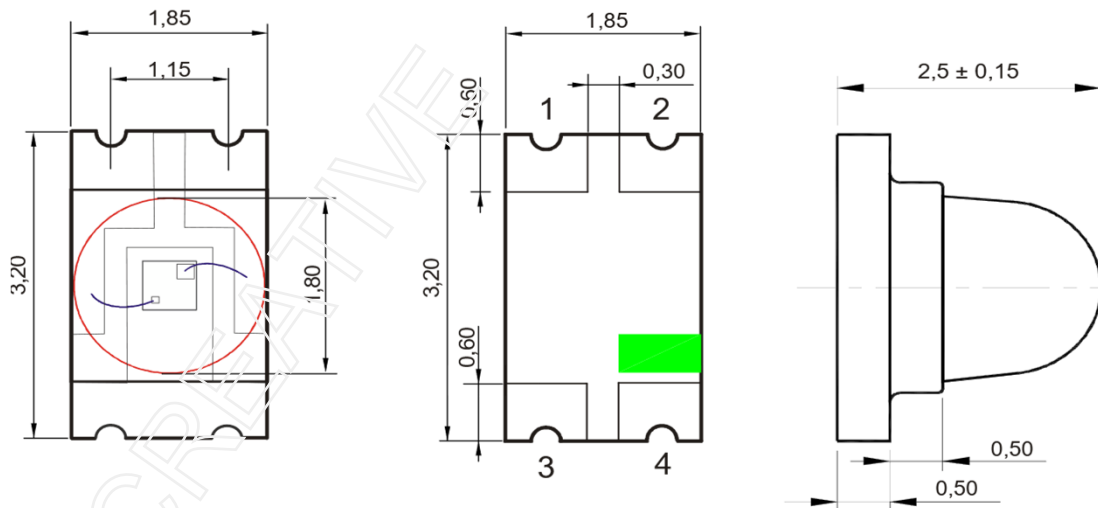
# CSM28491PEK

## Relative Radiation Sensitivity

@ T<sub>ambient</sub> = 25°C



## Mechanical Drawing



PIN 1 : EMITTER  
 PIN 2 : BASE  
 PIN 3; 4 : COLLECTOR

**Pls. Contact us for more technical detail information !**

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