Feb 2022

25°

CSR38431PEK

CREATIVE GMBH LED

- * 4,8mm Phototransistor with separate Base for general purpose
- * Mountable in row with 5mm distance
- * Response Angle of typ. 25 degree
- * Daylight filtered black housing
- * Mechanical matched with CQR- LED-Serie
- * SMT-Version CSS38431PEK
- * Current Gain selected



Optical and Electrical Characteristics @Tambient =25°C

Symbol	Parameter	MIN	Тур	MAX	UNIT	Test conditions
I _{Light}	Collector Light Current	2,3	4	$\langle \langle \rangle \rangle$	mA	Ee = 0,5mW/cm² @940nm ; Vr=10V
I _{CEO}	Collector Dark Current		2		nA	Ee = 0 mW/cm² ; Vr=10V
V (BR)CEO	Collector Emitter Breakdown Voltage	30		\sim	V	Ic = 100µA ; H = 0mW/cm²
V (BR)ECO	Emitter Collector Breakdown Voltage	5	11 12		V	Ic = 100µA ; H = 0mW/cm²
V _{CEsat}	Collector-Emitter Saturation Voltage		0,3		V	Ib = 100µA ; H = 0mW/cm²
λ_{peak}	Wavelength of Peak Sensitivity		860		nm	max. sensitivity
λ _{0,5}	Range of Spectral Bandwidth	700		1150	nm	I = 10%, typical
2Φ _{0,5}	Full Response Angle		25		deg.	ΦE = 50%
ß	Current Gain	500		1000		Ee = 0,5mW/cm² @940nm ; Vr=10V
А	Active Array	7	0,146		mm²	
t _f	Fall Time		15		μS	Vcc = 5V ; lc = 1mA ; RL = 1KΩ
t _r	Rise Time		15		μS	Vcc = 5V ; lc = 1mA ; RL = 1KΩ
T _{Operating}	Operating Temperature	-25		85	°C	
T _{Storage}	Storage Temperature	-25		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	Tamb 25°C

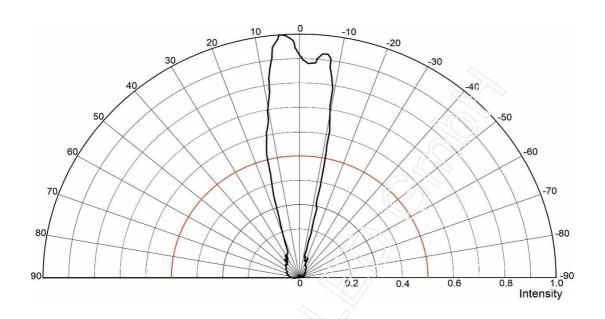
Order informations:

CSR38431PEK	Bulk
CSR38431PEK-TC	Bended according to customer specifications (on request)
CSR38431PEK-TR	Tape & Reel (1000pcs/reel) on request

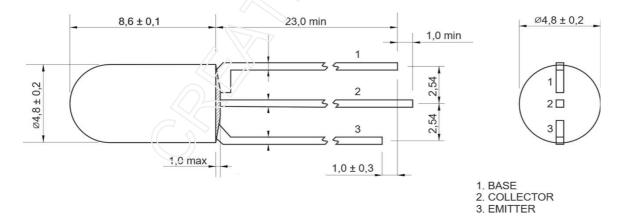
CREATIVE LED GMBH reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact us for latest device specification sheets before using.

Relative Responsitivity Angle

@ T_{ambient} = 25°C



Mechanical Drawing



Pls. Contact us for more technical detail information !

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