15°

CSR38531PCK

- * 4,8mm Phototransistor with separate Base for general purpose
- * Mountable in row with 5mm distance
- * Response Angle of typ. 15 degree with narrow tip
- * Daylight filtered black housing
- * Mechanical matched with CQR- LED Serie
- * SMT-Version CSS38531PCK



Symbol	Parameter	MIN	Тур	MAX	UNIT	Test conditions
Light	Reverse Light Current	5	δ		mA	Ee = 0,5mW/cm² @940nm ; Vr=10V
l _{Dark}	Reverse Dark Current		1	\sim	nA	Ee = 0 mW/cm² ; Vr=10V
V _{ceo}	Collector-Emitter Breakdown Voltage	30			V	$Ic = 100\mu A$; H = 0mW/cm ²
V _{eco}	Emitter-Collector Breakdown Voltage	5			V	$Ic = 100 \mu A$; H = 0mW/cm ²
V _{CEsat}	Collector-Emitter Saturation Voltage		\overline{O}	0,3	V	lb = 100µA ; H = 0mW/cm²
λ_{peak}	Wavelength of Peak Sensitivity	850	860		nm	max. sensitivity
λ _{0,5}	Range of Spectral Bandwidth	700		1150	nm	I = 10%, typical
2Φ _{0,5}	Full Response Angle		15		deg.	ΦE = 50%
ß	Current Gain	800		1300		Ee = 0,5mW/cm² @940nm ; Vr=10V
А	Active Array		0,146		mm²	
t _f	Fall Time		15		μS	Vcc = 5V ; Ic = 1mA ; RL = 1KΩ
t _r	Rise Time		15		μS	Vcc = 5V ; Ic = 1mA ; RL = 1KΩ
T Operating	Operating Temperature	-25		85	°C	
T _{Storage}	Storage Temperature	-25		100	°C	
T Soldering	Soldering Temperature			260	°C	Iron Soldering; 5mm from case @ max 5 sec.
R _{thJA}	Thermal Resistar ce		450		K/W	
P tot	Total Power Dissipation			100	mW	Tamb 25°C

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Order informations:

CSR38531PCK-XX CSR38531PCK-TC

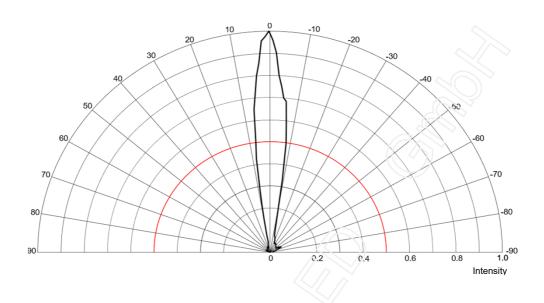
Bended according to customer specifications (on request)

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.

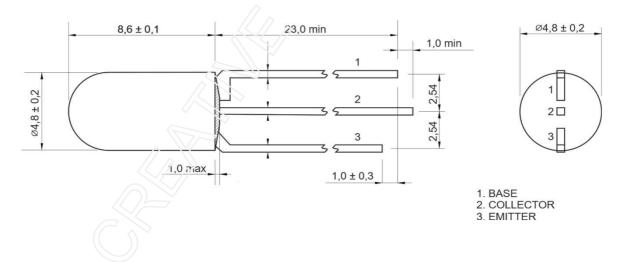
Bulk

Relative Responsitivity Angle

@ T_{ambient} = 25°C



Mechanical Drawing



Pls. Contact us for more technical detail information !

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