

SMD Phototransistor 900nm CSM63851-CSM63854PEK

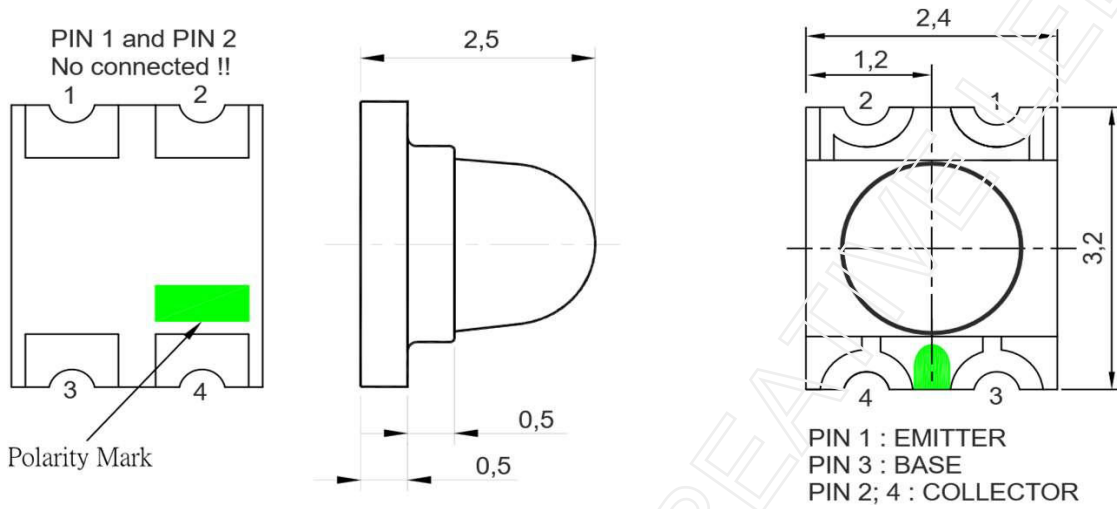
- * SMD Phototransistor with separate Base for general purpose
- * Hfe current gain selected groups
- * **Narrow Response Angle of typ. 25°**
- * Daylight filtered black housing optimized for 850nm /870nm LED
- * Optical and Mechanical matched with LED
CQM55557AFA, CQM55551AFA (870nm)
CQM35592ADA (850nm), CQM35608AFA (940nm)

Optical and Electrical Characteristics @Tambient =25°C

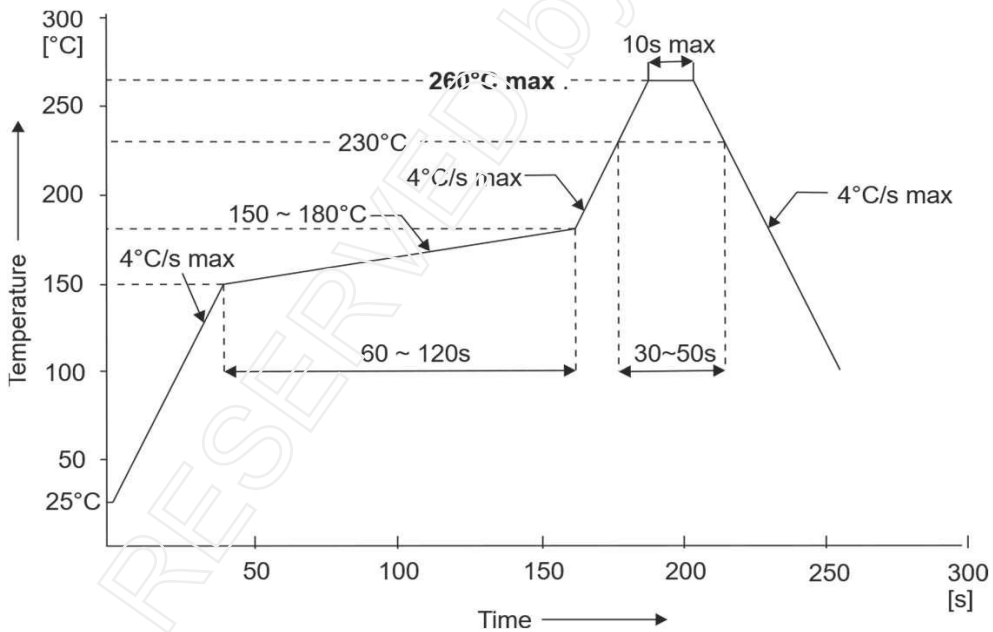
Symbol	Parameter	MIN	Typ	MAX	UNIT	Test conditions
I _{Light}	Light Current CSM63851	0,7	2		mA	V _{ce} = 10V ; E _e = 0,5mW/cm ² @940nm
I _{Light}	Light Current CSM63852	1,5	3		mA	V _{ce} = 10V ; E _e = 0,5mW/cm ² @940nm
I _{Light}	Light Current CSM63853	3	5		mA	V _{ce} = 10V ; E _e = 0,5mW/cm ² @940nm
I _{Light}	Light Current CSM63854	4	7		mA	V _{ce} = 10V ; E _e = 0,5mW/cm ² @940nm
I _{CEO}	Collector Dark Current			100	nA	V _{ceo} = 10 V ; E _v =0
V _{(BR)CEO}	Collector Emitter Breakdown Voltage	30			V	I _c = 100 μA ; I _b = 0
V _{(BR)ECO}	Emitter Collector Breakdown Voltage	5			V	I _e = 100 μA ; I _b = 0
V _{CEsat}	Collector-Emitter Saturation Voltage		0,3		V	I _b = 100μA I _c = 2mA
λ _{peak}	Wavelength of Peak Sensitivity		900		nm	max. sensitivity
λ _{0,5}	Range of Spectral Bandwidth	720		1150	nm	I = 10%, typical
t _f	Fall Time		15		μS	V _{ce} = 5V ; I _c = 1mA ; R _L = 1KΩ
t _r	Rise Time		15		μS	V _{ce} = 5V ; I _c = 1mA ; R _L = 1KΩ
A	Active Array		0,145		mm ²	
β	Current Gain CSM63851	200		800		V _{ce} = 5 V ; I _c = 2mA
β	Current Gain CSM63852	500		1000		V _{ce} = 5 V ; I _c = 2mA
β	Current Gain CSM63853	800		1300		V _{ce} = 5 V ; I _c = 2mA
β	Current Gain CSM63854	1000		1800		V _{ce} = 5 V ; I _c = 2mA
2Φ _{0,5}	Full Response Angle	20	25		deg.	Φ _E = 50%
C _{CEO}	Collector Emitter Capacitance		6		pF	V _R = 0V ; f = 1Mhz; E _e = 0mW/cm ²
T _{Operating}	Operating Temperature	-25		85	°C	
T _{Storage}	Storage Temperature	-30		100	°C	
T _{Soldering}	Soldering Temperature			260	°C	5mm from case @ max 5 sec.
R _{thJA}	Thermal Resistance		450		K/W	
P _{tot}	Total Power Dissipation			50	mW	T _{amb} 25°C

Pls. Contact us for more technical detail information !

Mechanical Drawing



Soldering Profil



Order informations:

CSM63851PEK	Tape&reel (1500pcs/reel)
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CSM63854PEK	Tape&reel (1500pcs/reel)