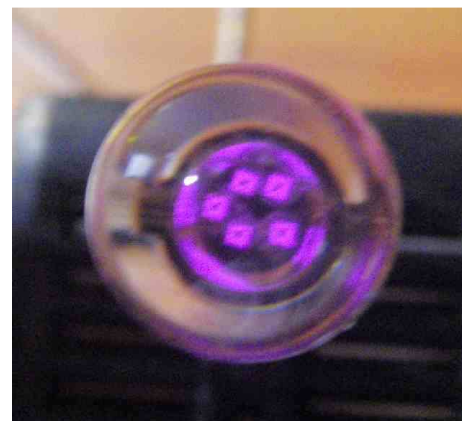


LED DIODE DATASHEET

SK-10IR-850-5 -10mm 5CHIP IR POWER LED

Specifications:

- **Material: InGaN**
- **Size: 10 mm**
- **Emitting colour: INFRARED**
- **Number of emitting diodes: 5**
- **Lens type: Waterclear**
- **Reverse voltage: 5V**
- **DC forward voltage: 1,5V, max. 1,6V**
- **Wavelength: 850 +/-5nm**
- **DC forward current: 85mA, max. 100mA**
- **Viewing angle: 30-40 degree**
- **Lead soldreing temperature: 260°C for 5 seconds**



Electrical-optical characteristic (Ta=25°C):

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =100mA	1,4	1,5	1,6	V _f
Reverse current	I _R	V _R =5V	---	---	10	uA
Luminous intensity	I _V	I _F =100mA	---	---	---	mCd
Colour temperature	N _m	I _F =100mA	845	850	855	nm
½ Viewing angle	deg	I _F =100mA	---	20	---	deg

Absolute max ratings (Ta=25°C):

Reverse Voltage	Forward Current	Peak forward current	Power dissipation	Operating temperature range	Storage temperature range
5V	100mA	120mA (1/10 duty cycle, 10ms pulse width)	500mW	-25-+85°C	-40-+100°C

- **Indoor / outdoor lighting**
- **Low power consumption**
- **Long lasting time (50.000-100.000hrs)**
- **I.C. compatible**
- **Intensely bright**

