

LED and Photo diode in single package
Model No. AL130K

LED + Photodiode Model

◆ **Description**

For the application with a highly stabilized light source for precise optical system, LED and the monitored Photodiode are packaged together.



◆ **Absolute Maximum Ratings**

Ta = 25°C

Parameter	Symbol	Value	Unit
LED Forward Current (DC)	I _F	100	mA
LED Pulse Forward Current *1	I _{FP}	1.0	A
LED Reverse Voltage (DC)	V _{Re}	5	V
PD Reverse Voltage (DC)	V _{Rd}	20	V
Power Dissipation	P _D	170	mW
Operating Temperature	T _{opr}	-20 ~ +100	°C
Storage Temperature	T _{stg}	-30 ~ +125	°C
Soldering Temperature *2	T _{sol}	260	°C

*1 : Tw=10 μ s, T=10mS

*2 : within 5sec / up to 3.0mm from the body

◆ **Electro-optical Characteristics**

Ta = 25°C

Parameter	Symbol		Value	Unit	
Radiated Power	P _O	Min	3.0	mW	I _F = 50mA
		Typ	5.0		
Forward Voltage	V _F	Typ	1.3	V	I _F = 50mA
		Max	1.7		
Reverse Current	I _R	Max	100	μ A	V _R = 5V
PD Output Current	I _L	Typ	200	μ A	I _F =50mA, V _{Rd} =10V
PD Dark Current	I _D	Max	10	nA	V _{Rd} =10V
Peak Wavelength	λ _p	Typ	880	nm	I _F = 50mA
Half width	Δ λ	Typ	80	nm	I _F = 50mA
Viewing Half Angle	θ 1/2	Typ	±7	deg.	I _F = 50mA

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External Dimension (unit: mm)

