

OPN205CL-1A-26.5

The OPN-205CL-1A-26.5 is a GaAlAs IRED with precision optical designed lens.
It emits parallel infrared lights.

Features:

- Parallel rays
- High reliability
- Flat readiation pattern
- Compact

Applications:

- Smoke sensors
- High performance-linear sensor
- Encoders



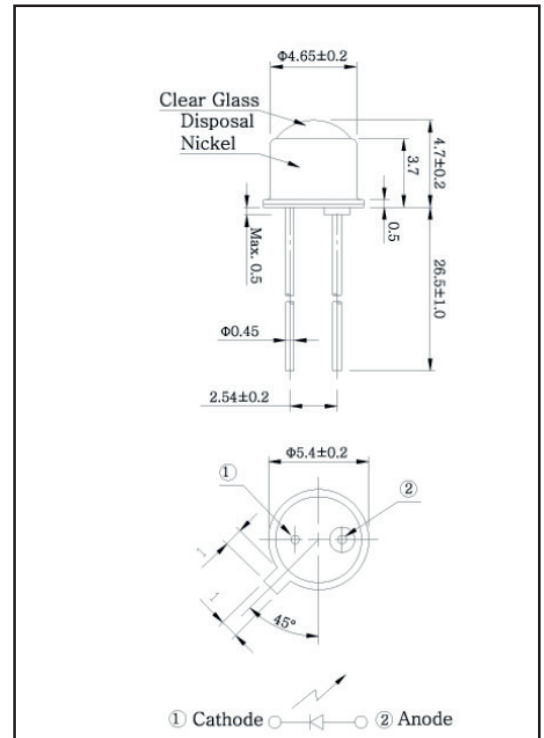
According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC (174 substances) are $\leq 0.1\%$



Compliance to Directive 2011/65/EU

Dimensions

(in mm)



(Ta = 25°C)

Maximum Ratings

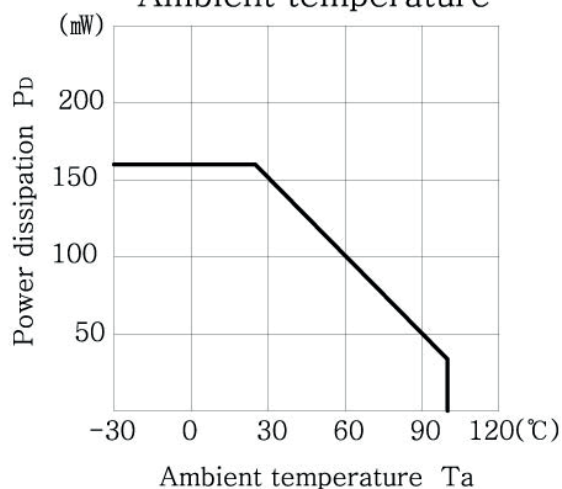
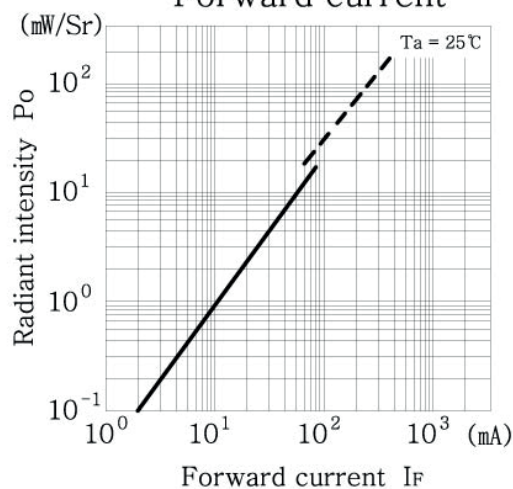
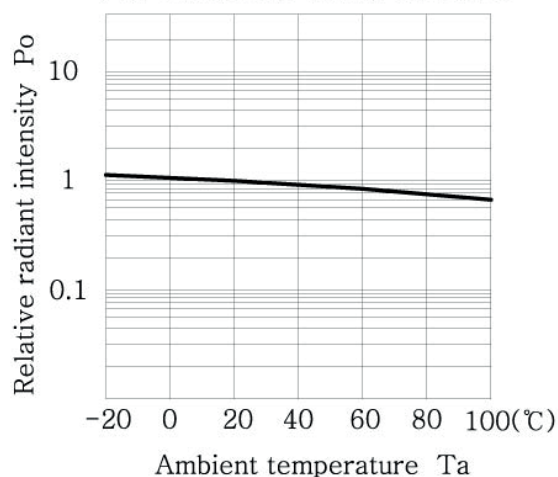
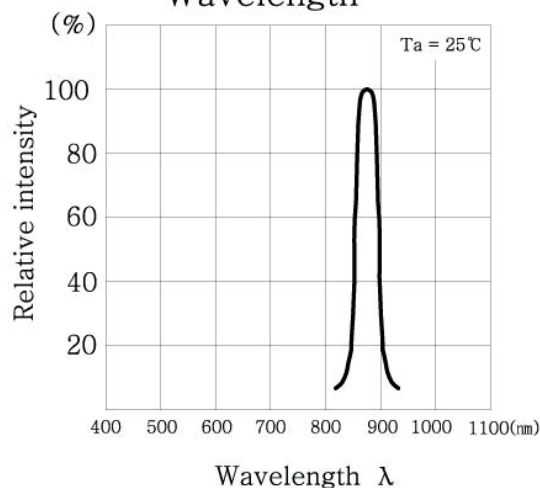
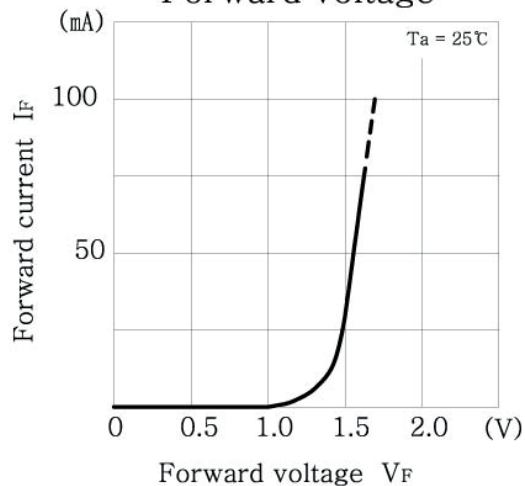
Item	Symbol	Rating	Unit.
Reverse Voltage	V_R	5	V
Forward Current	I_F	80	mA
Pulse Forward Current	I_{FP}	0.8	A
Power Dissipation	P_D	160	mW
Operating Temperature	$T_{opr.}$	-40 ~ +125	°C
Storage Temperature	$T_{stg.}$	-40 ~ +130	°C
Soldering Temperature *1	$T_{sol.}$	260	°C

*1 For Max. 5 seconds at the position of 2mm from the package.

Electro-Optical Characteristics

(Ta = 25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward Voltage	V_R	IF = 50mA		1.6	2.0	V
Reverse Current	I_R	VR = 5V			10	μ A
Capacitance	C_T	f = 1MHz		18		pF
Radiant Intensity	P_o (A)	IF = 50mA	6.0		7.99	mW / Sr
	(B)		8.0			
Peak Emission Wavelength	λ_P	IF = 50mA		875		nm
Spectral Bandwidth	$\Delta\lambda$	IF = 50mA		50		nm
Half Angle	$\Delta\theta$			± 9		deg.

Power dissipation Vs.
 Ambient temperature

 Radiant intensity Vs.
 Forward current

 Relative radiant intensity
 Vs. Ambient temperature

 Relative intensity Vs.
 Wavelength

 Forward current Vs.
 Forward voltage


Radiant Pattern

